

FIG. 1

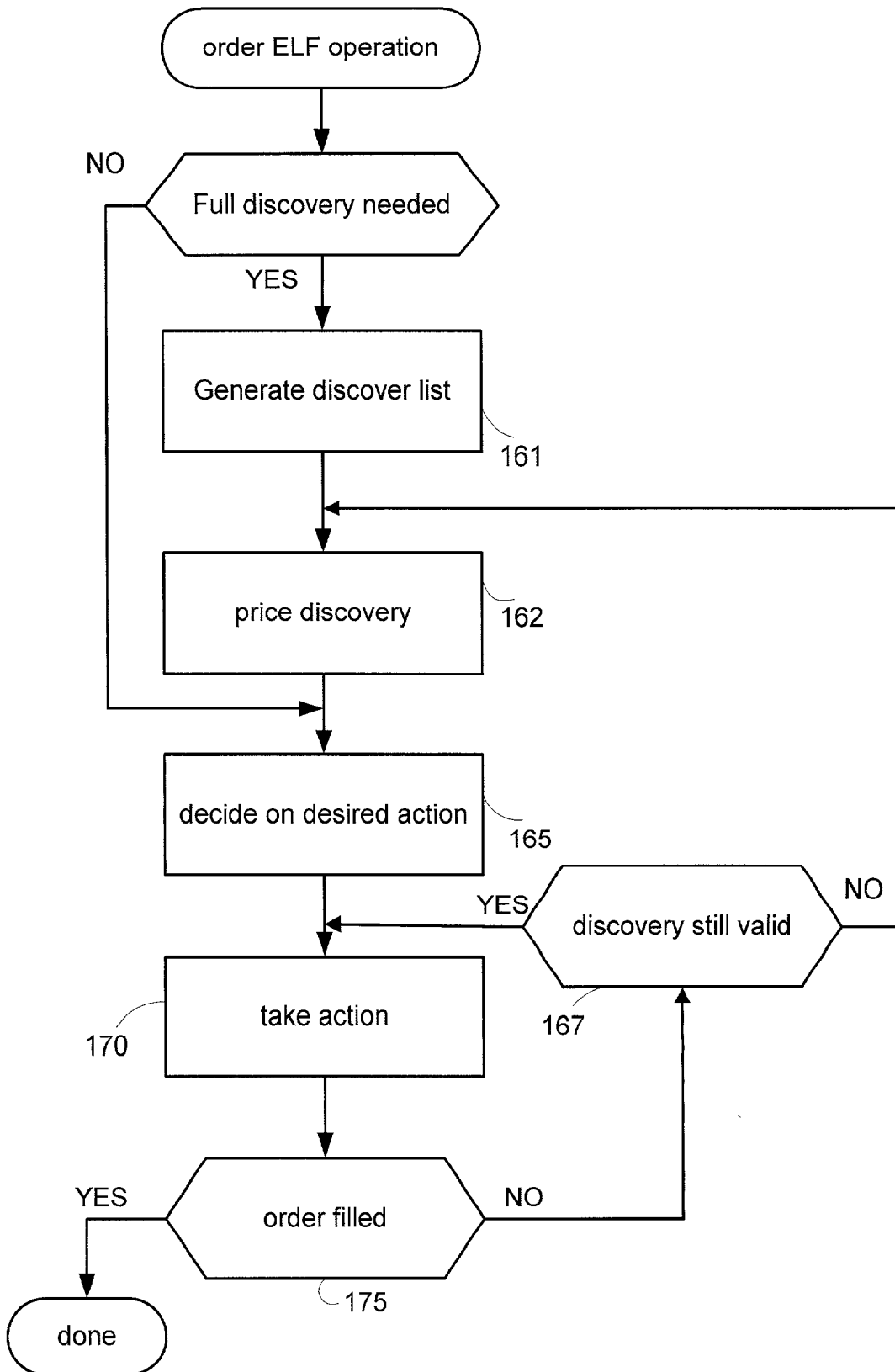


FIG. 2

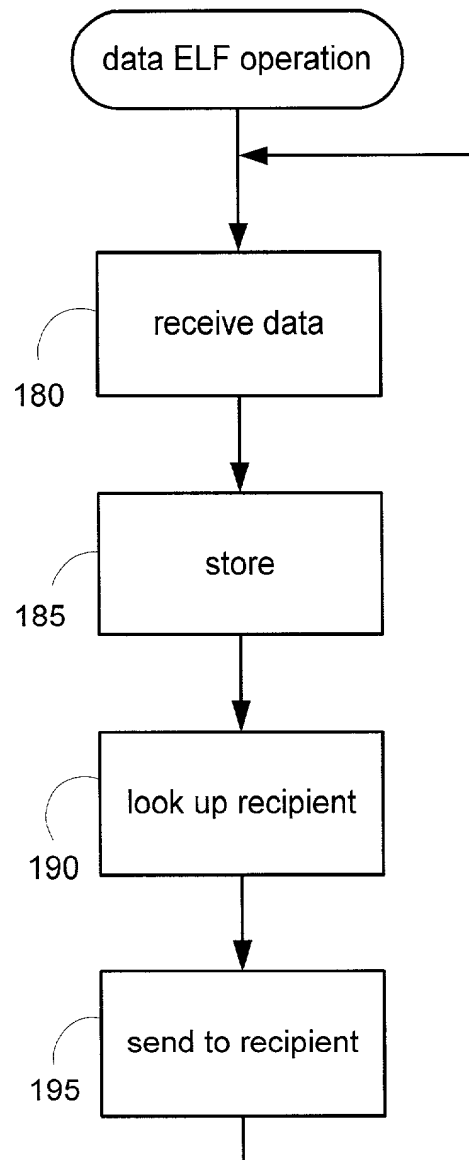


FIG. 3

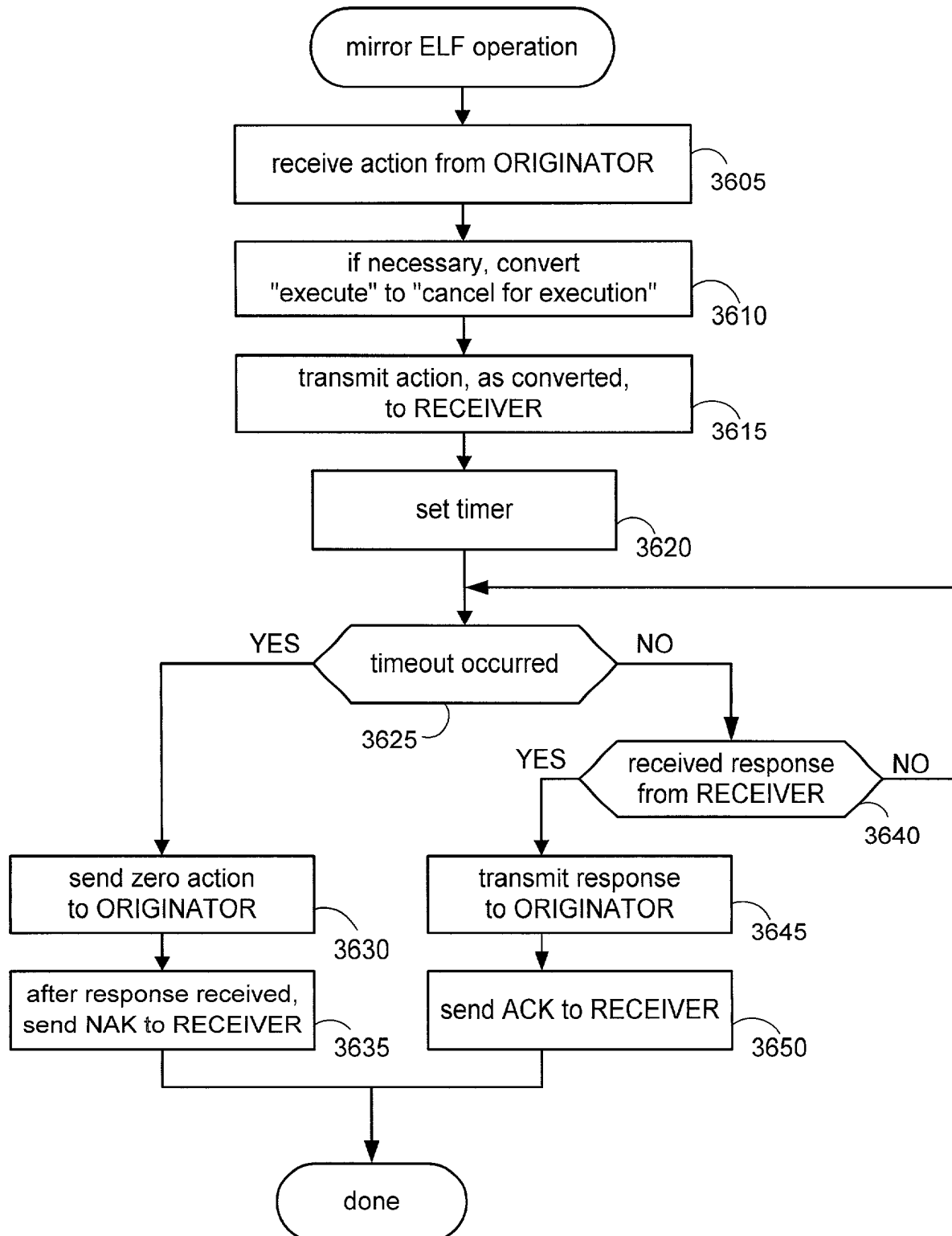


FIG. 4

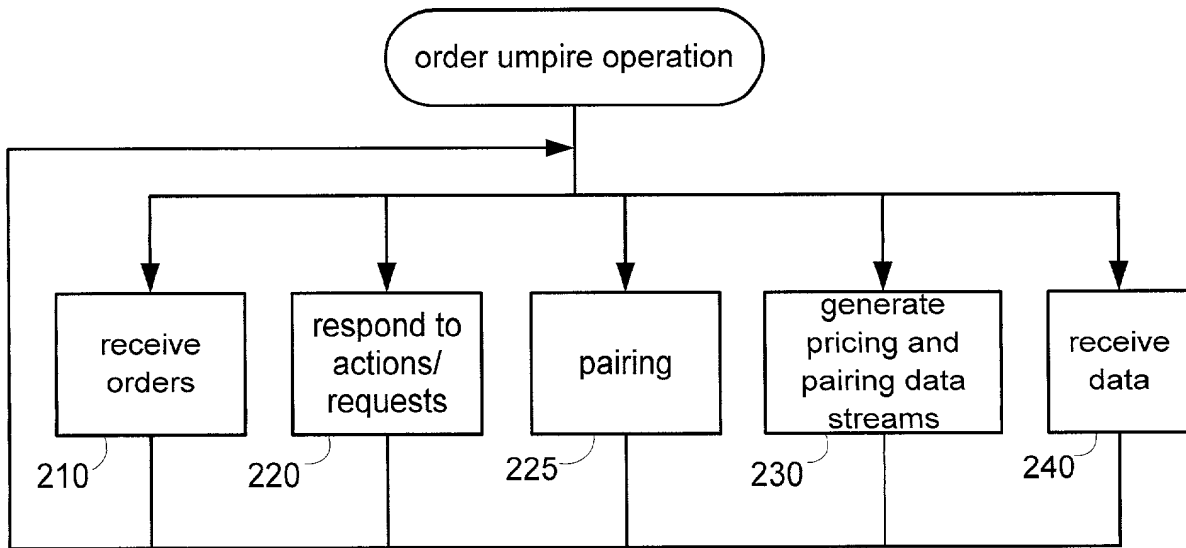


FIG. 5

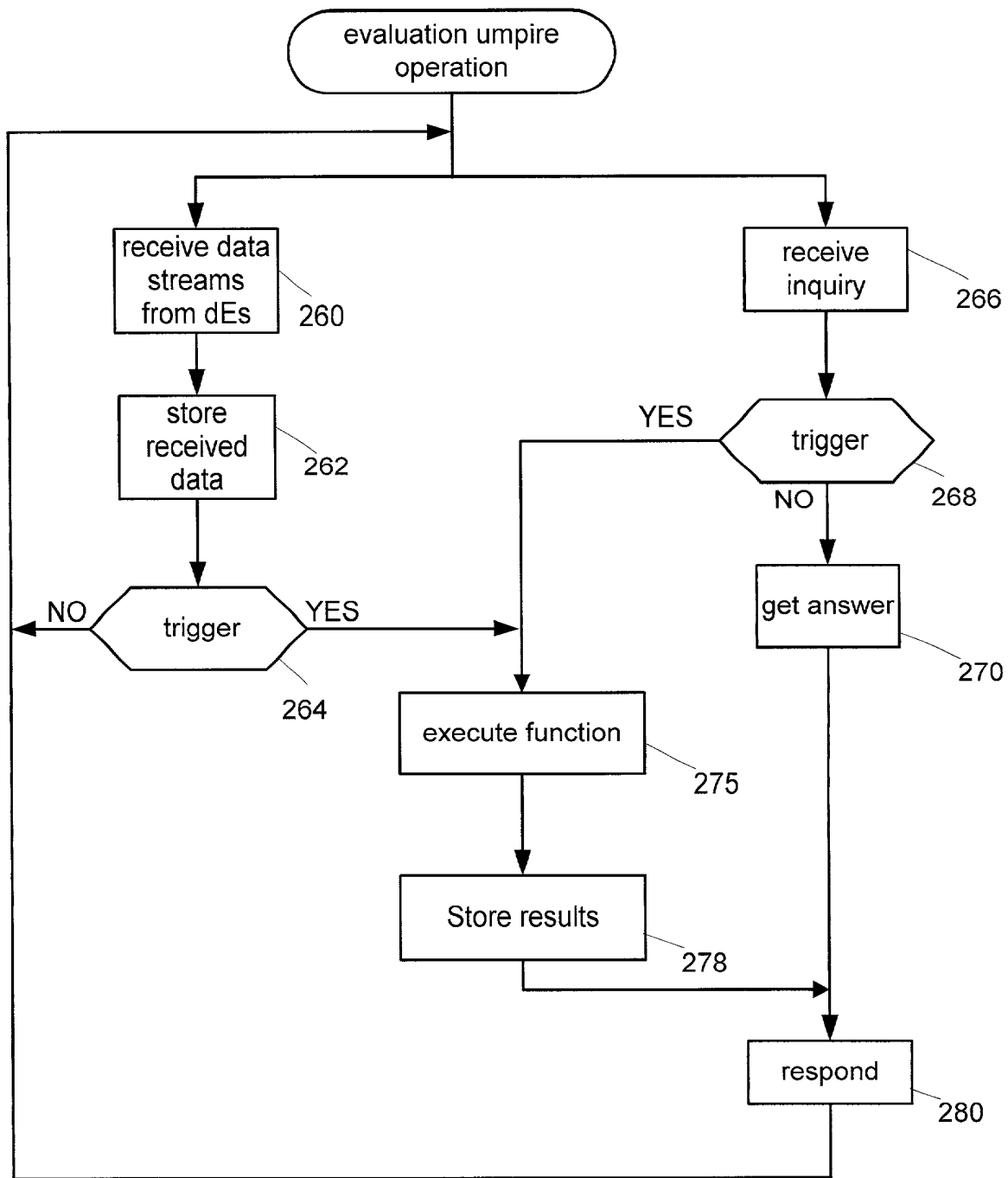


FIG. 6

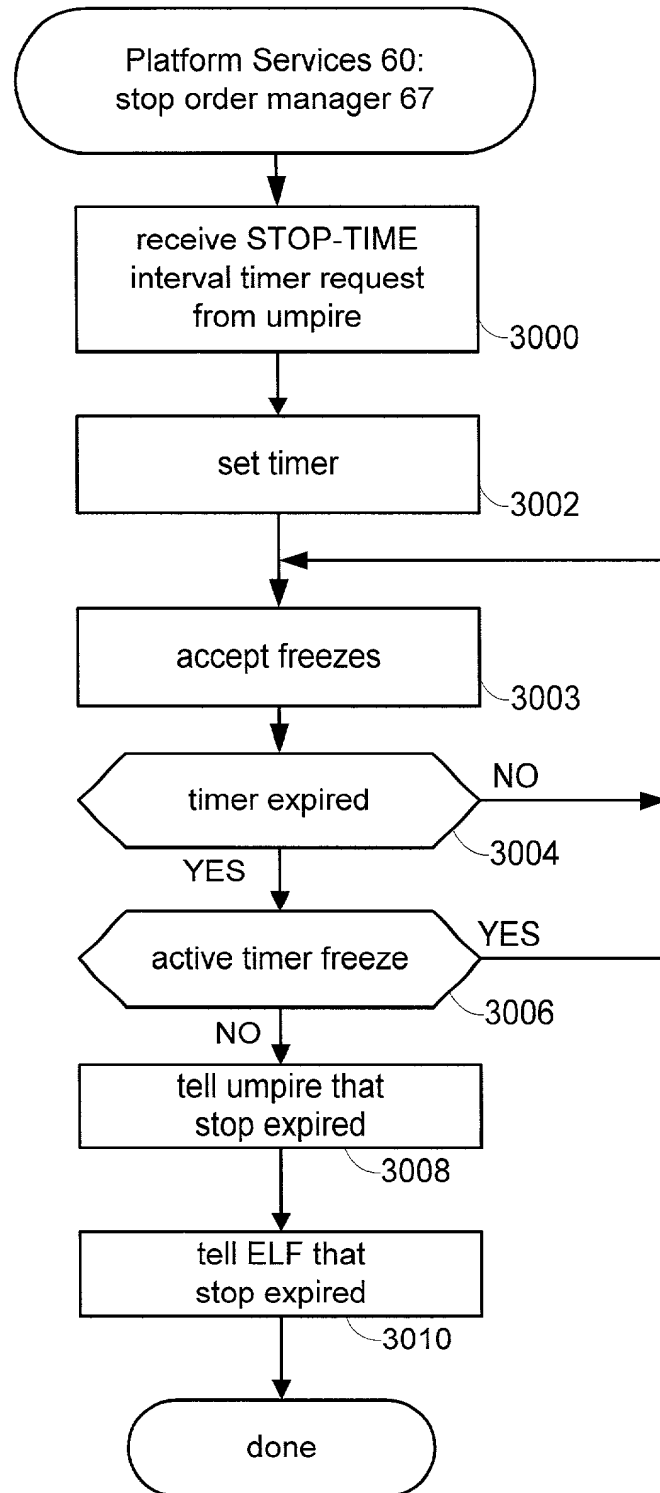


FIG. 7

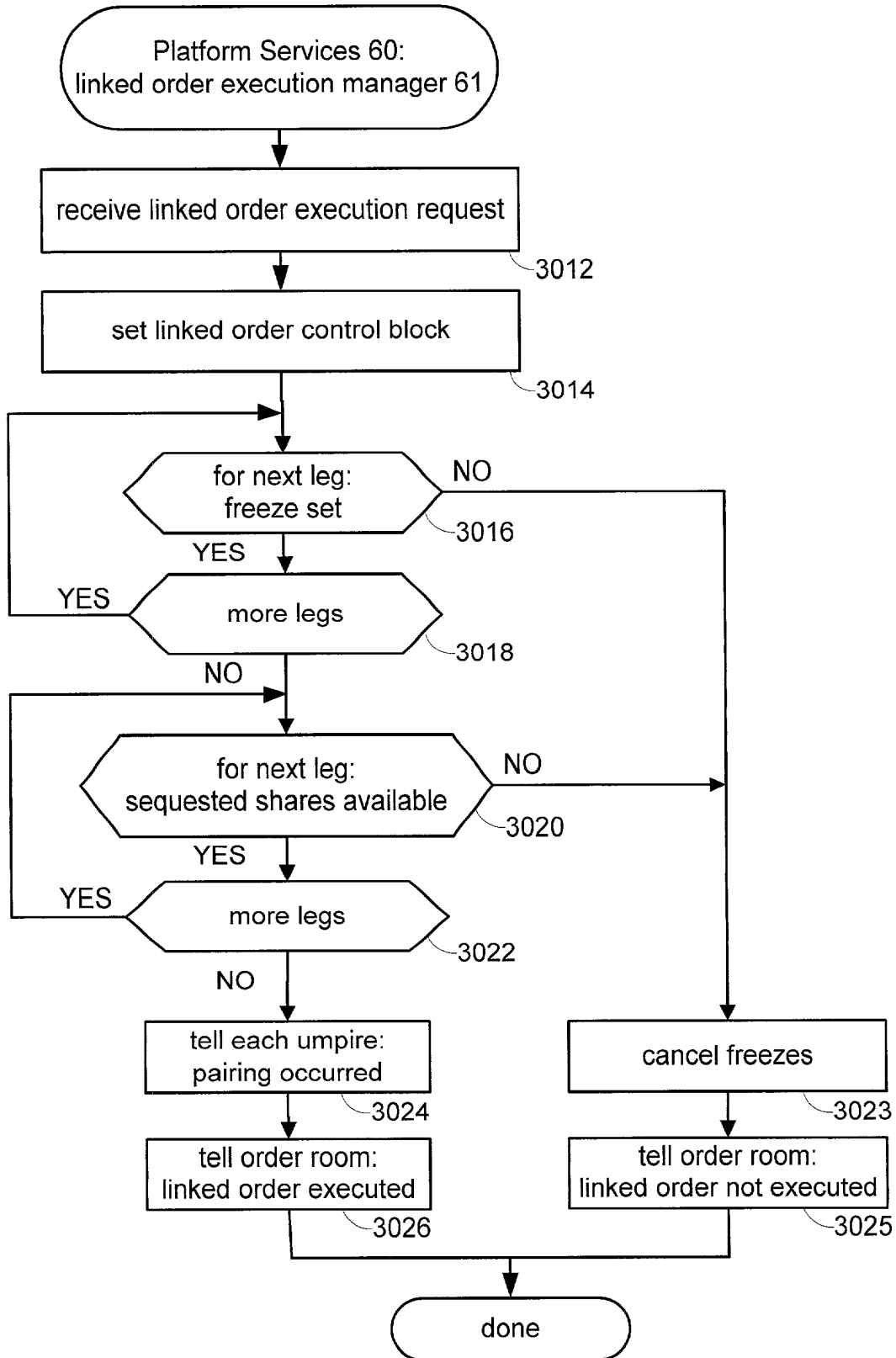


FIG. 8

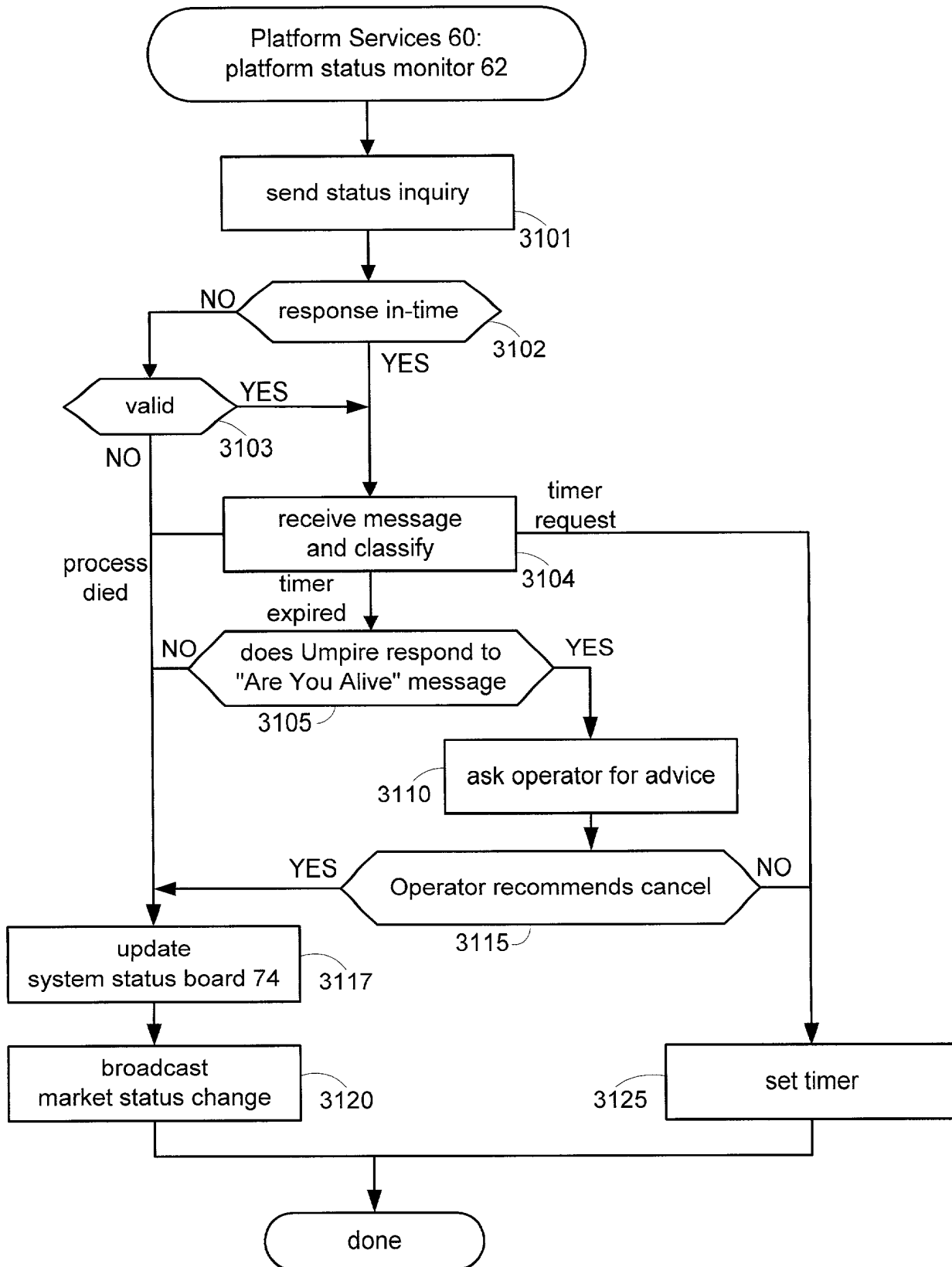


FIG. 9

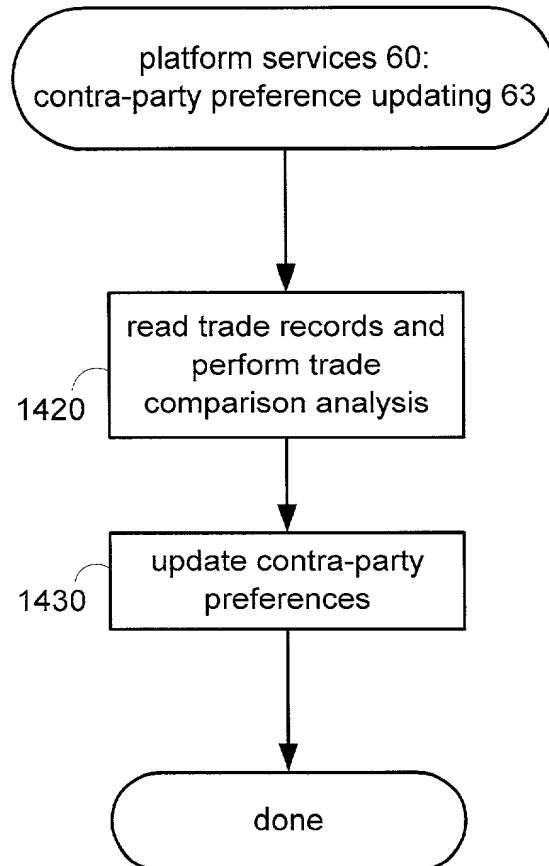


FIG. 10

74

1

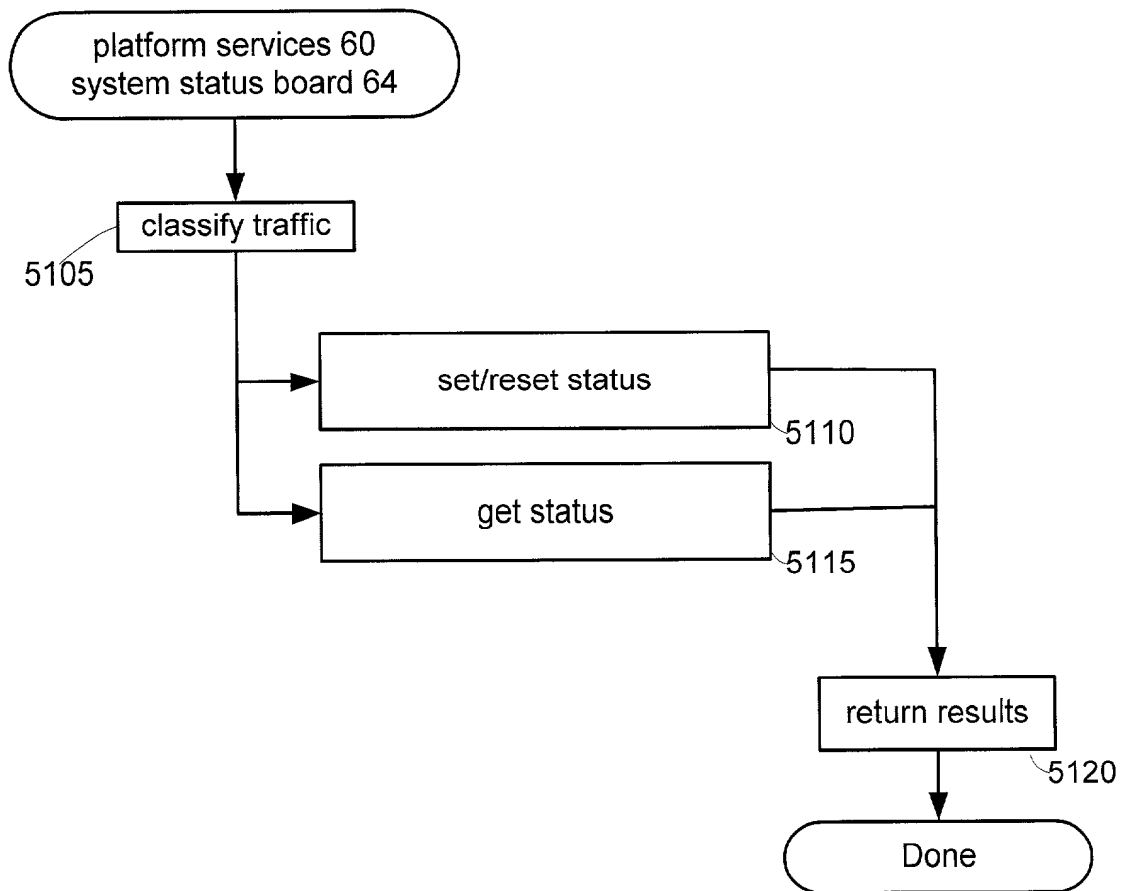


FIG. 12

Order Fields

Symbol Side Price Size Umpire

Orders

1

2

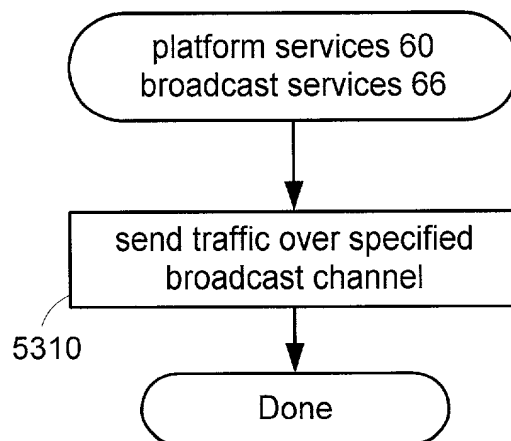
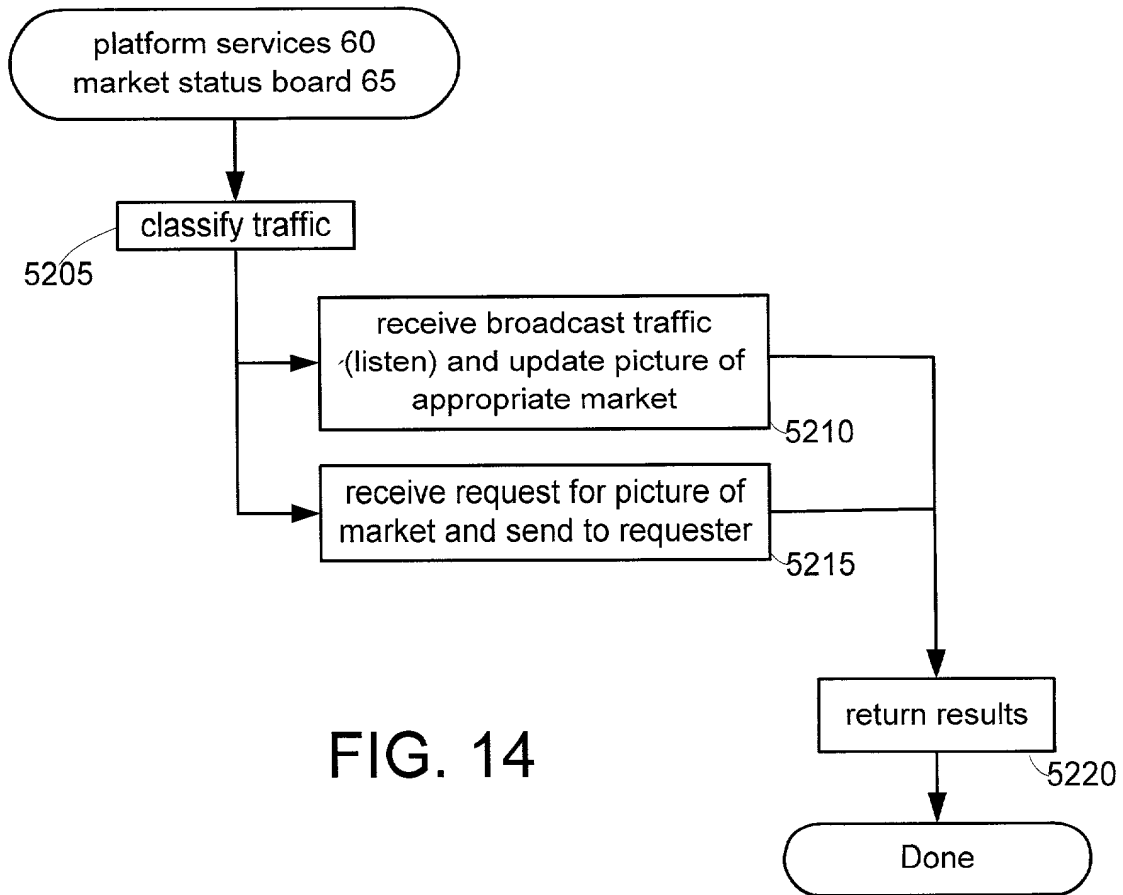
3

4

5

75

FIG. 13



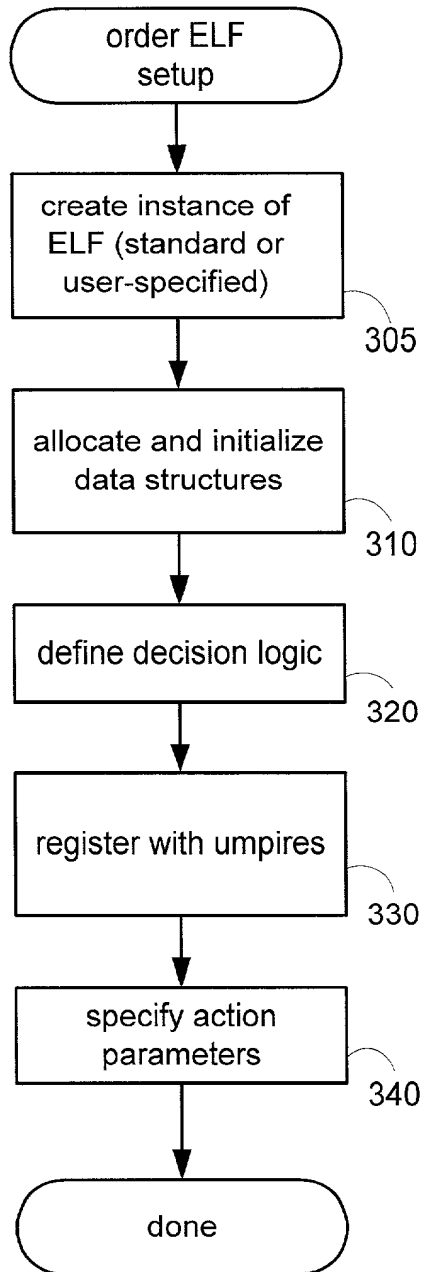


FIG. 16

110

sections	S-1	S-2	S-3		S-s
holding tanks	H-1	H-2	H-3		H-h
orders waiting in holding tanks	order-1				
	order-2				
	order-n				

FIG. 17

condition cells					action cells				

FIG. 18

name of symbol	type	attributes	default value	value

150

FIG. 19

umpire 342
umpire 30
.
.
.
umpire 154

130

FIG. 20

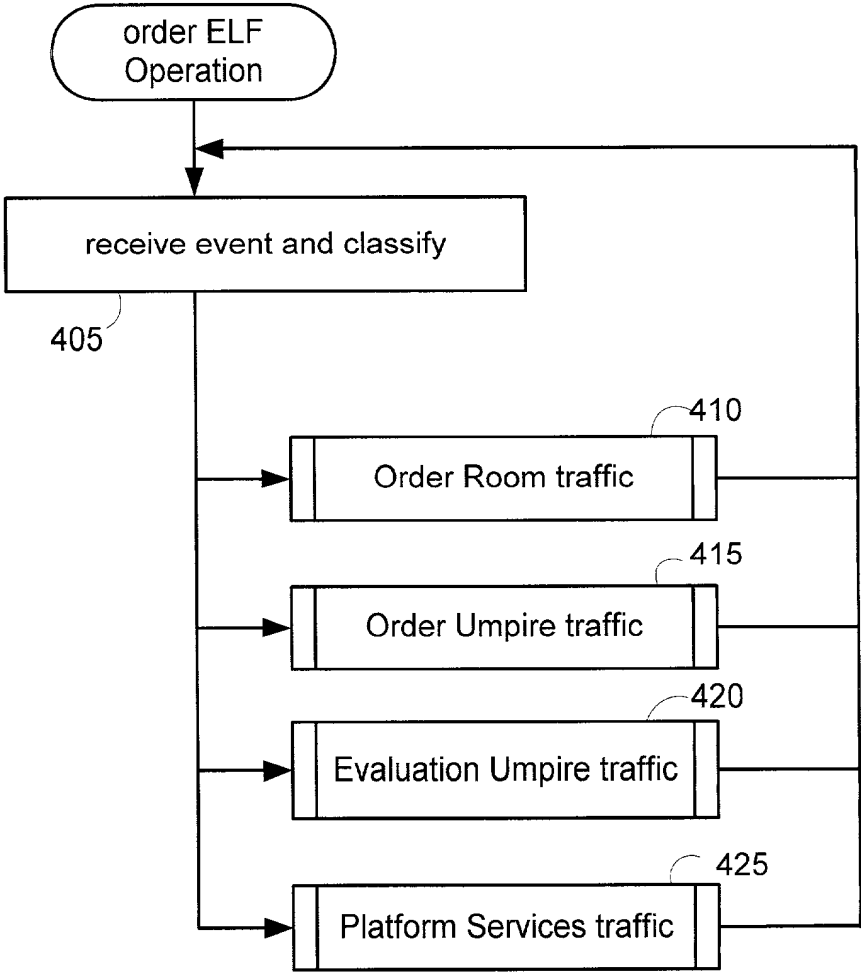


FIG. 21

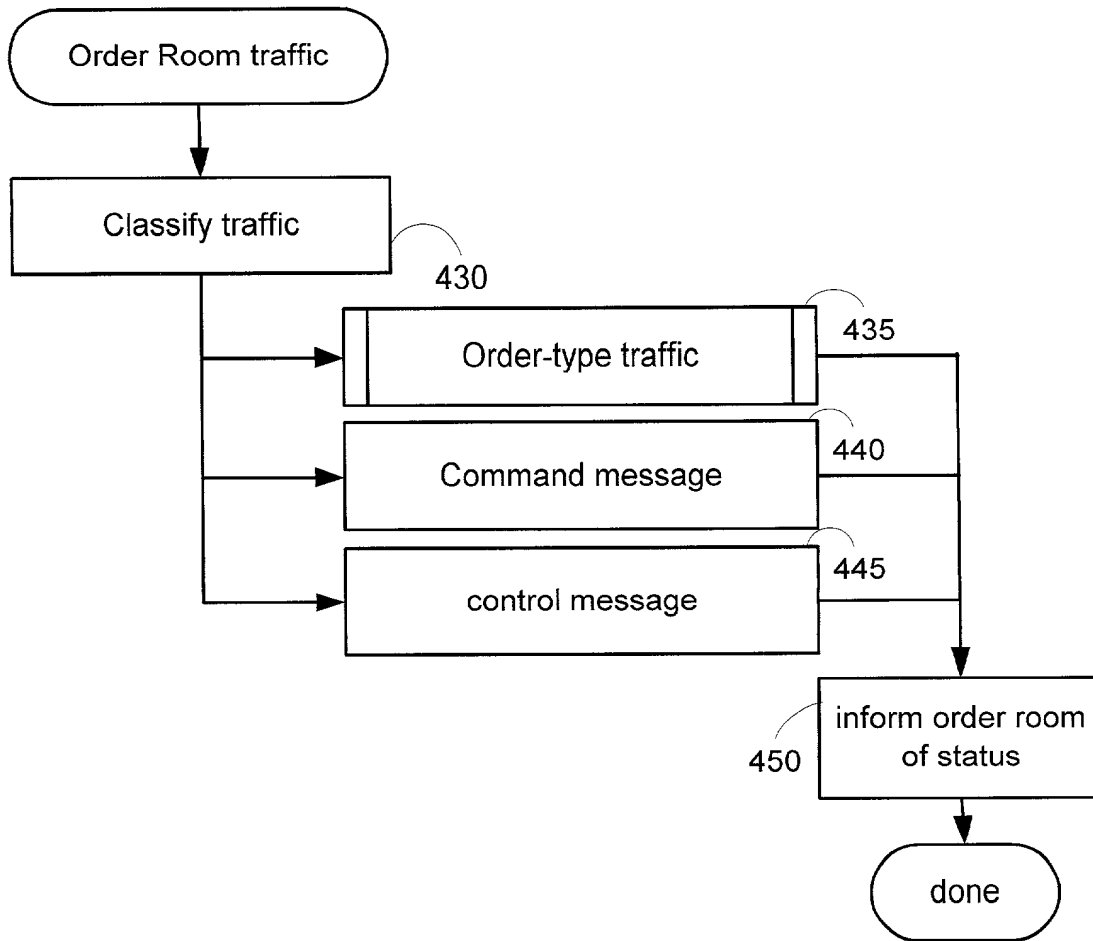


FIG. 22

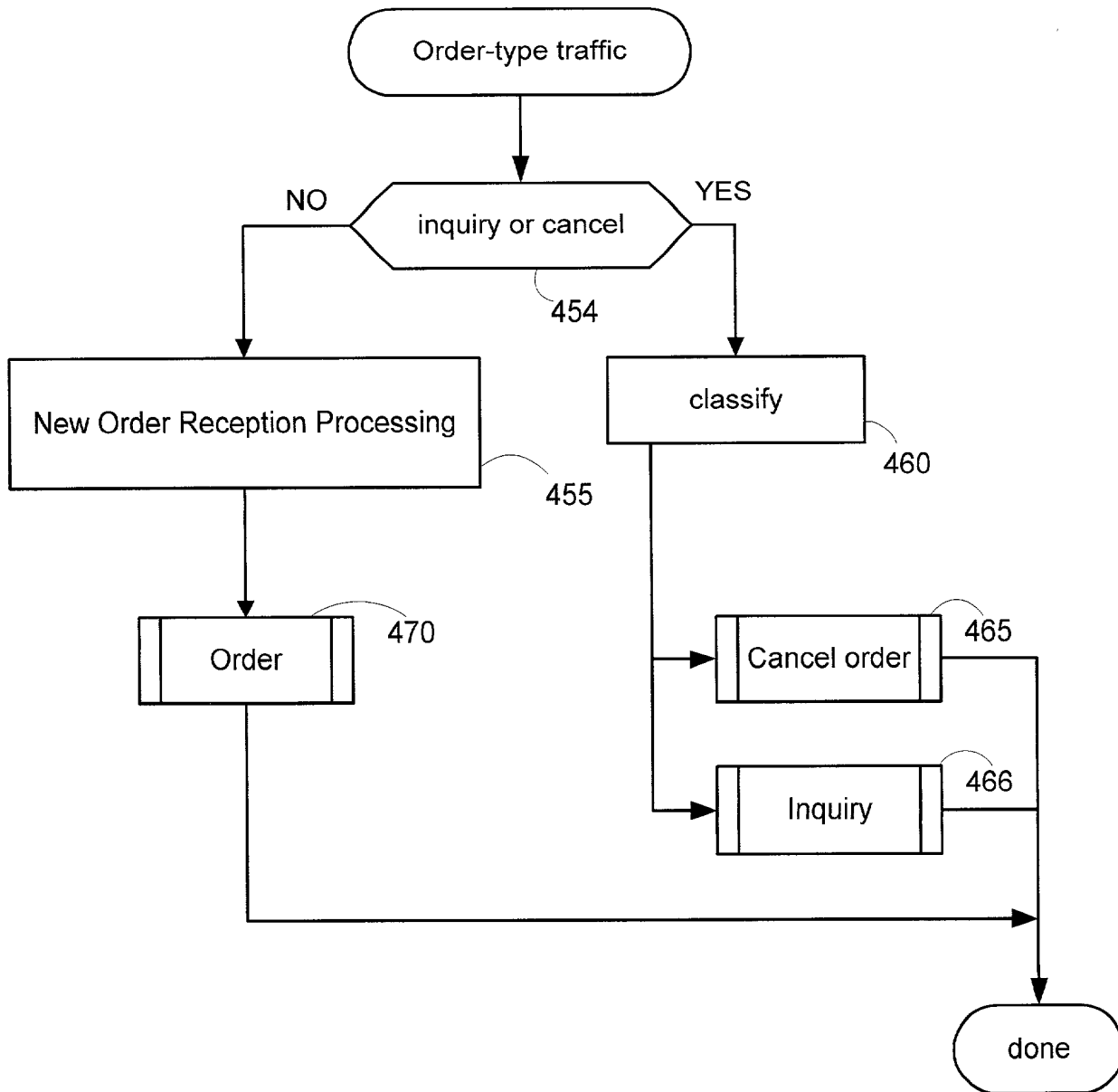


FIG. 23

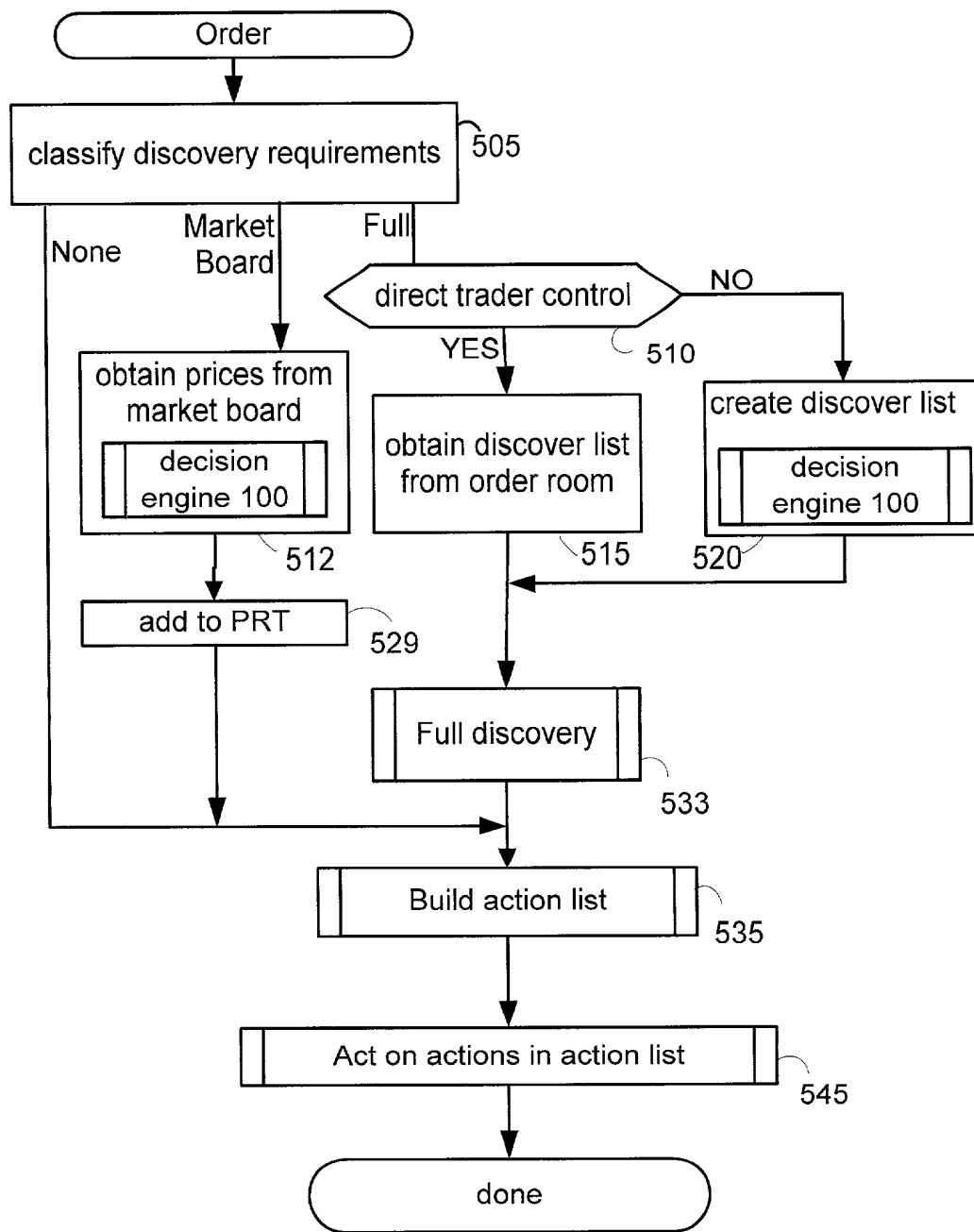


FIG. 24

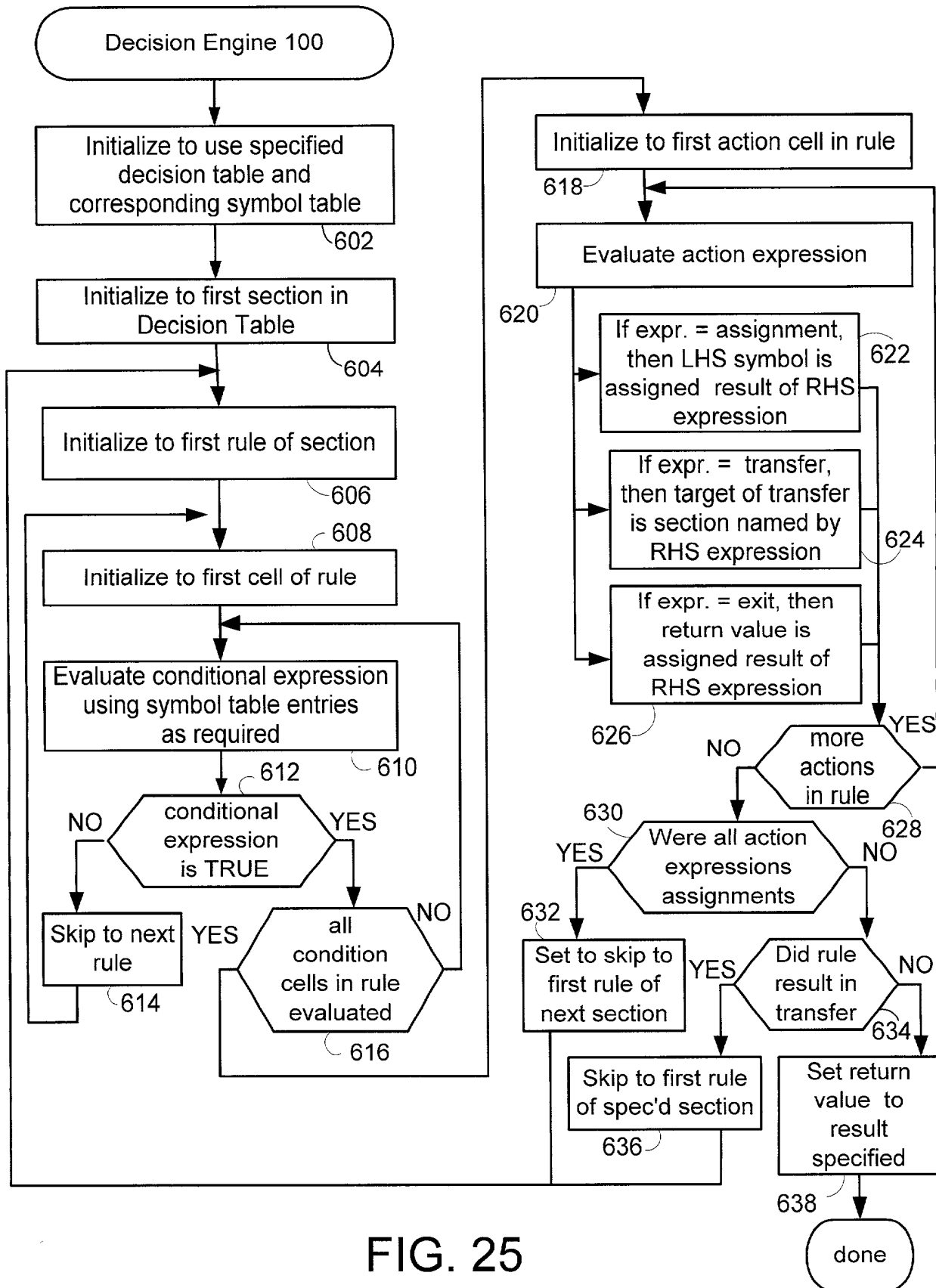


FIG. 25

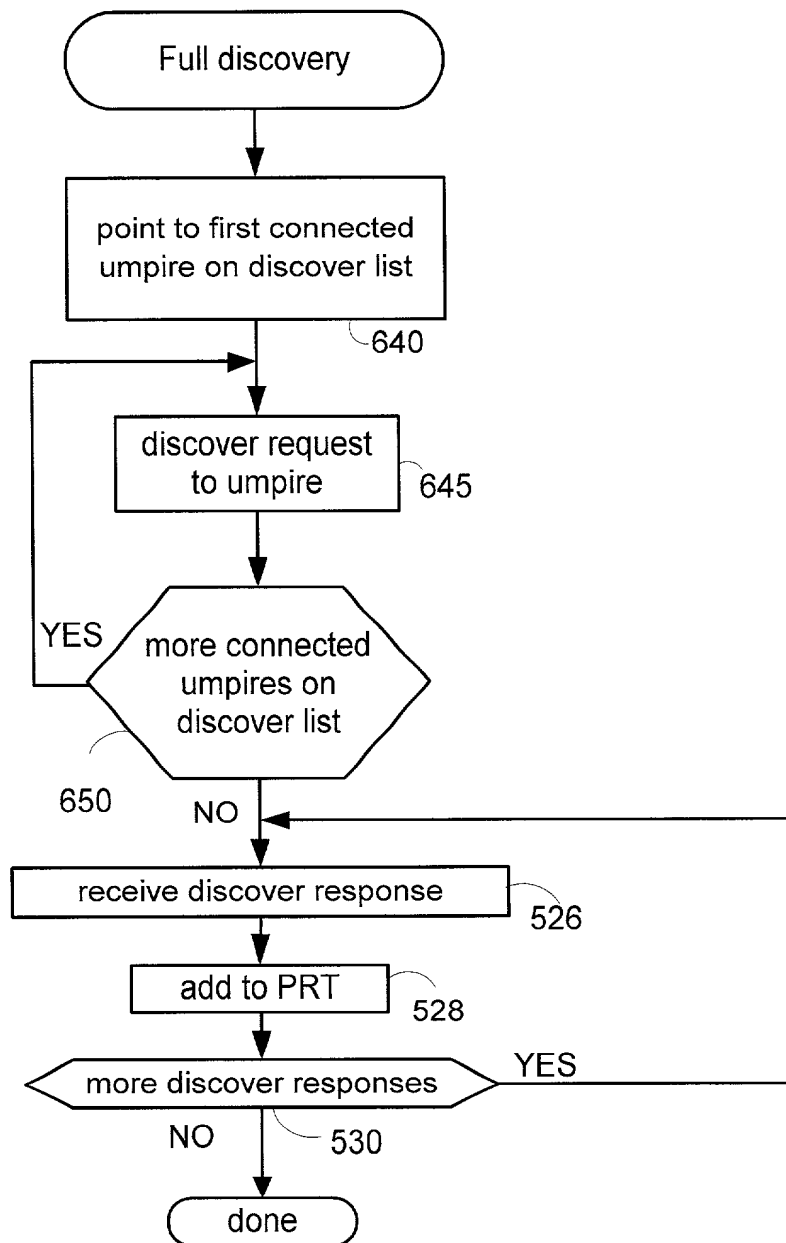


FIG. 26

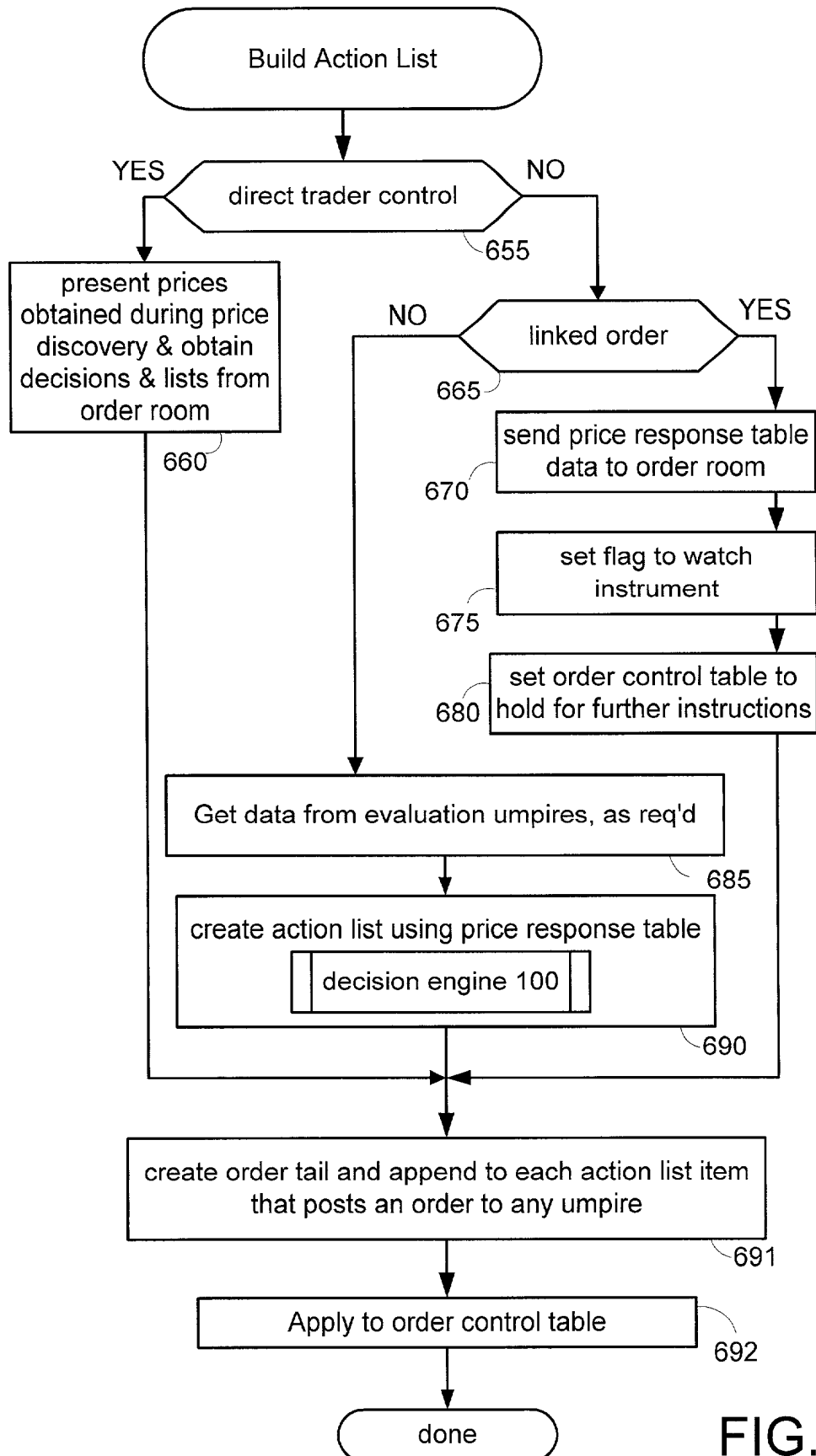


FIG. 27

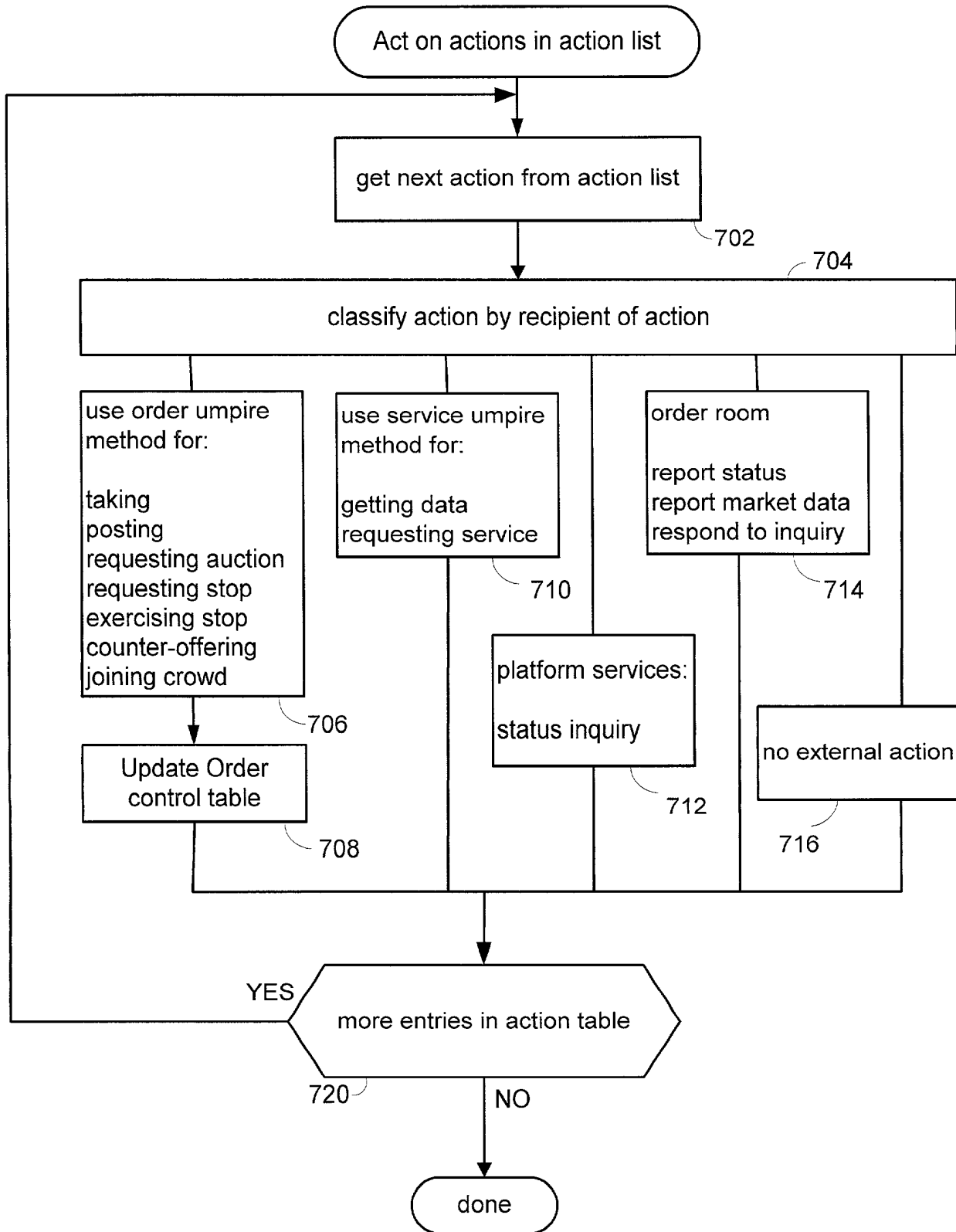


FIG. 28

FIG. 29A

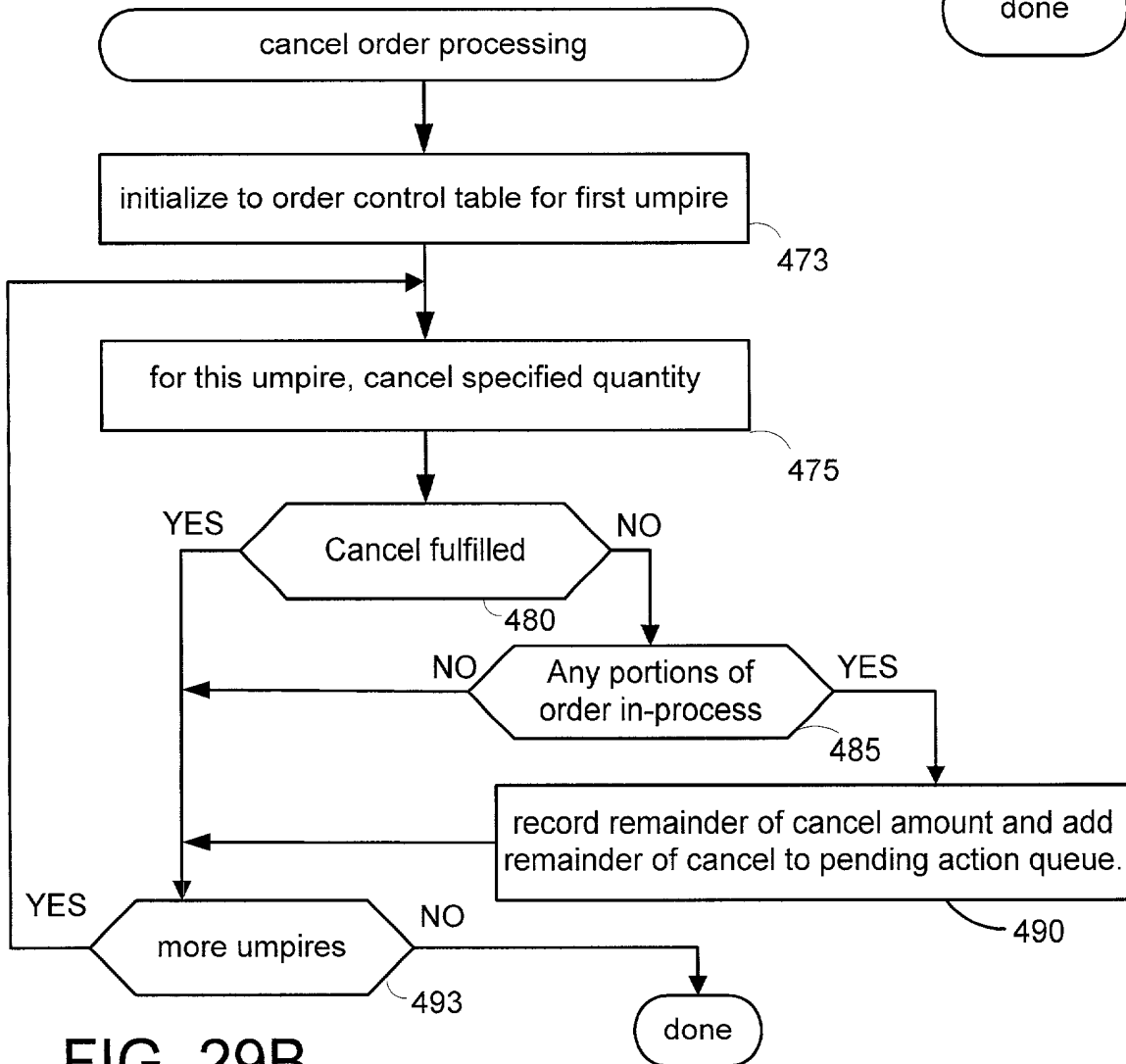
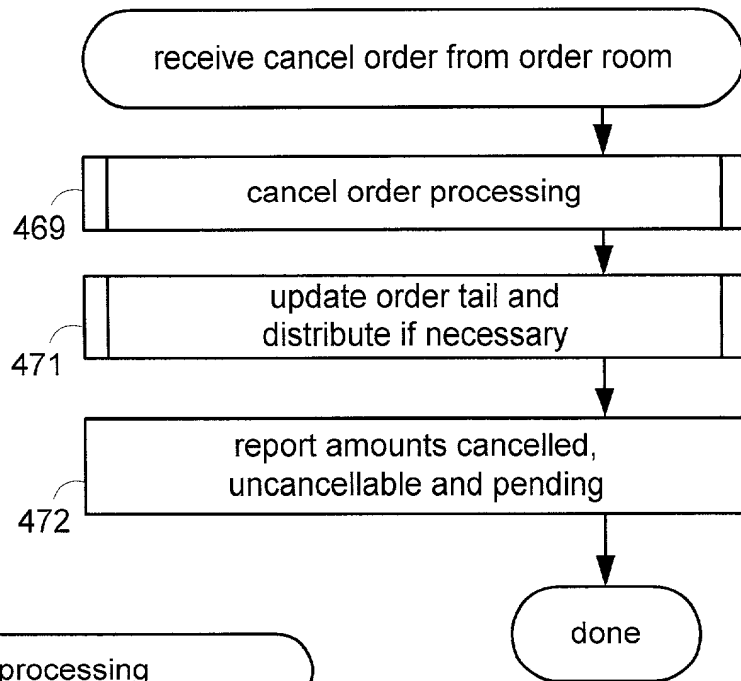


FIG. 29B

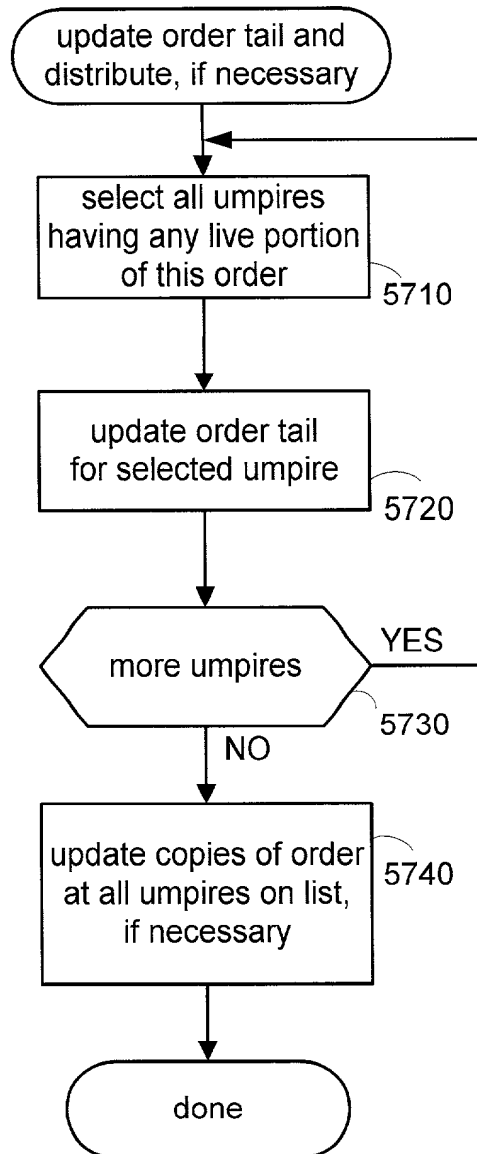


FIG. 30

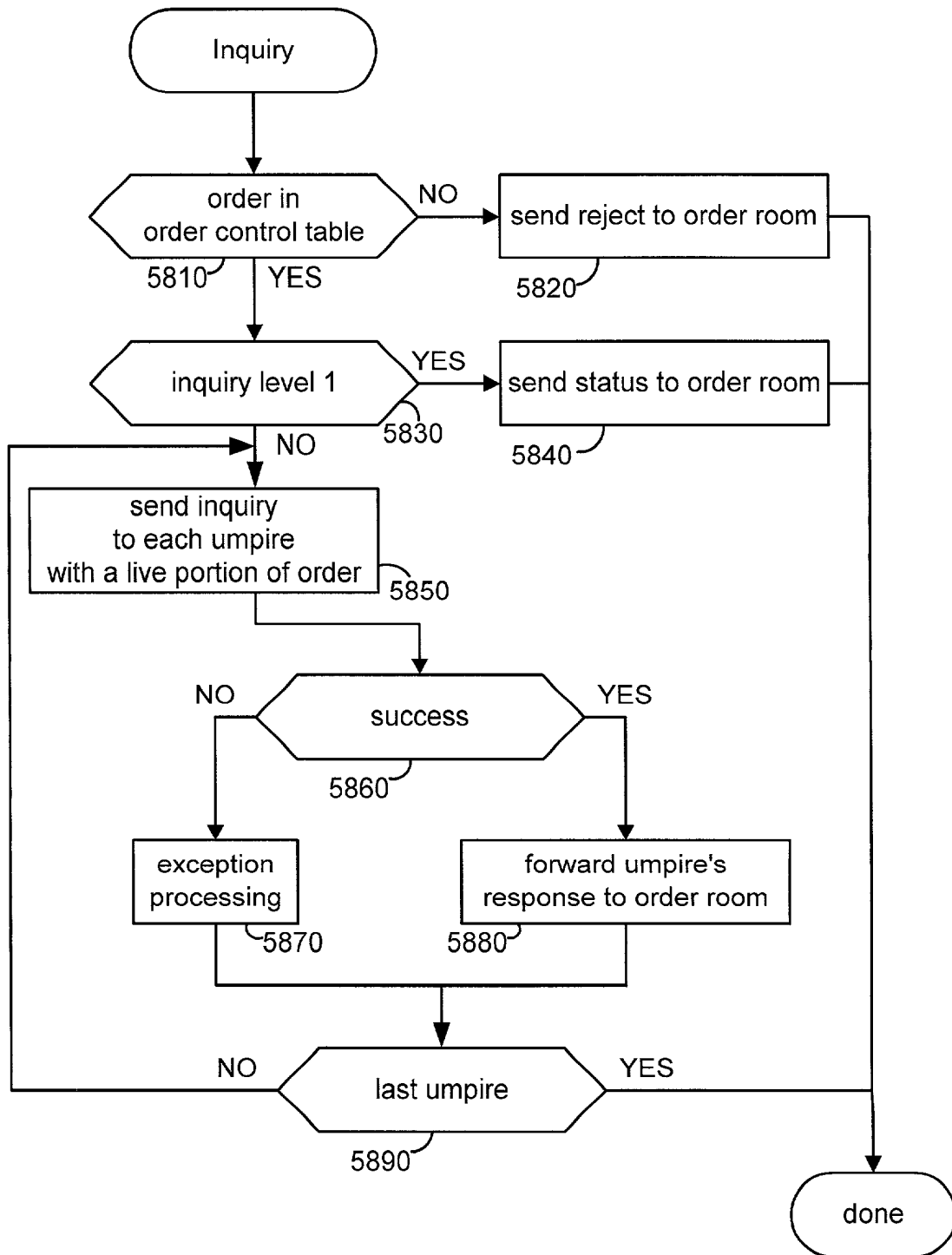


FIG. 31

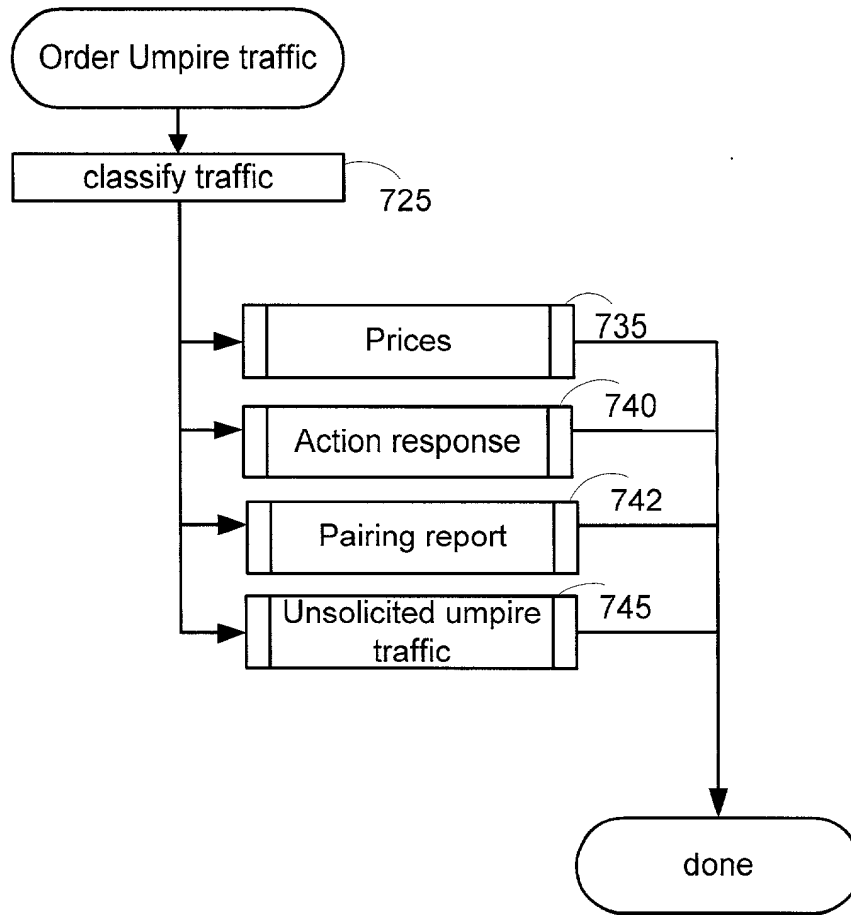


FIG. 32

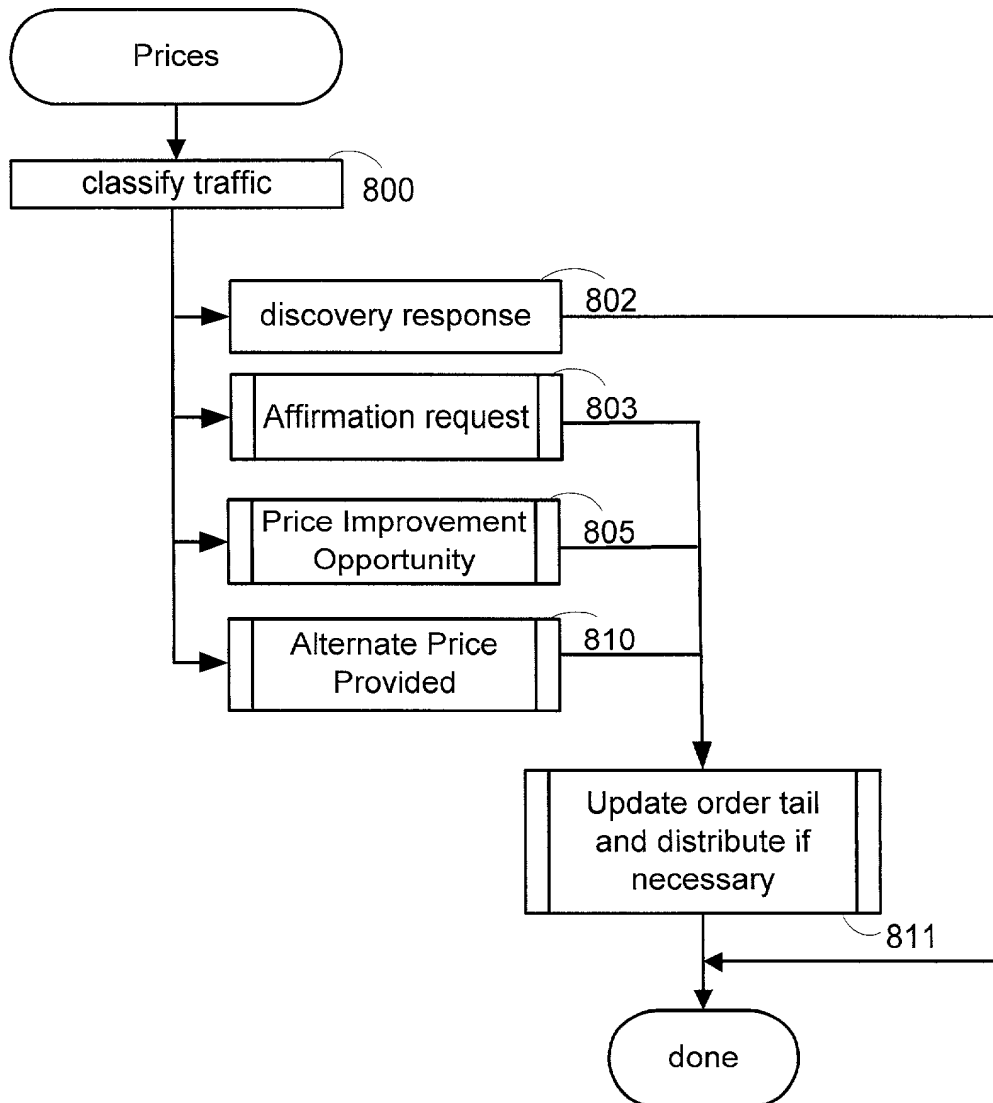


FIG. 33

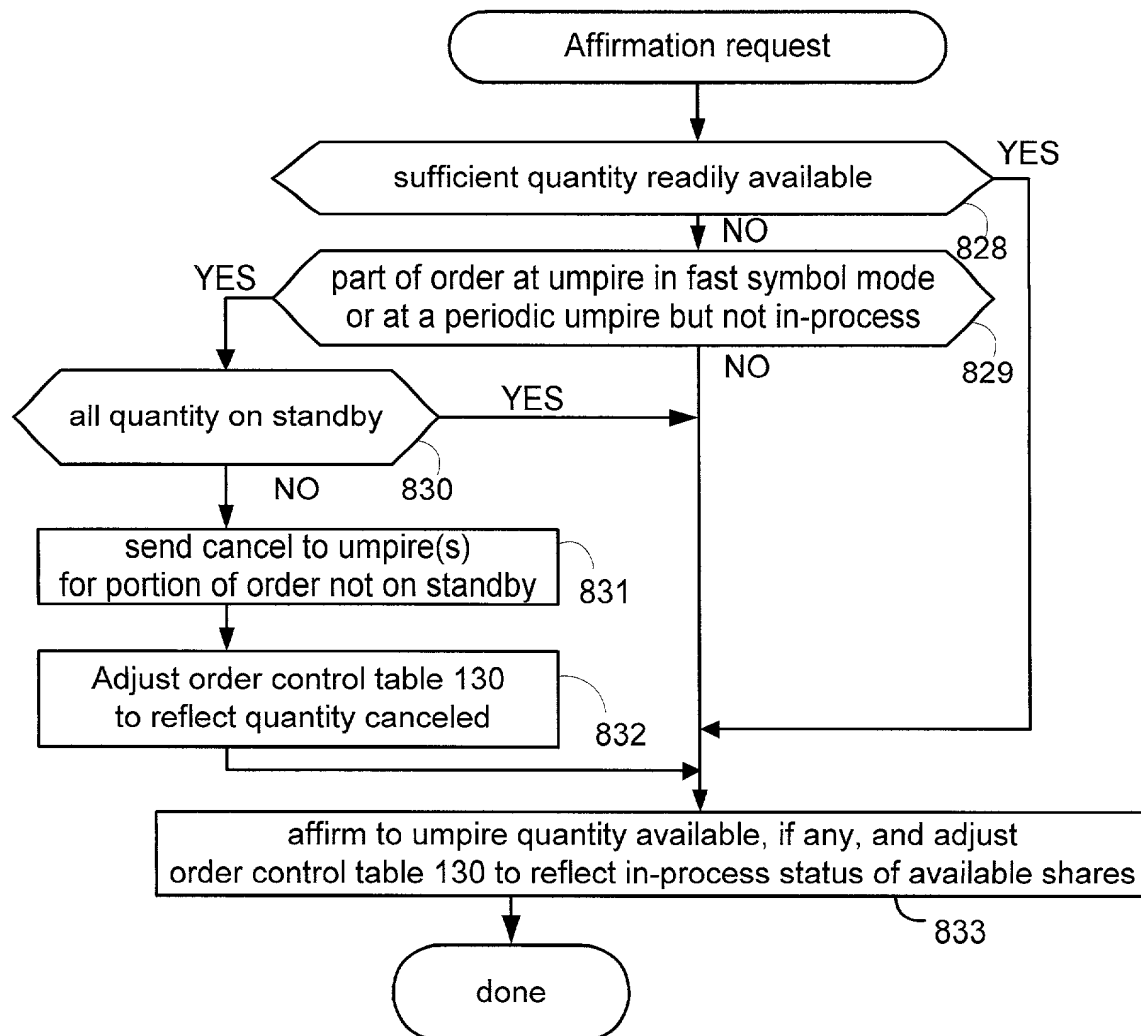


FIG. 34

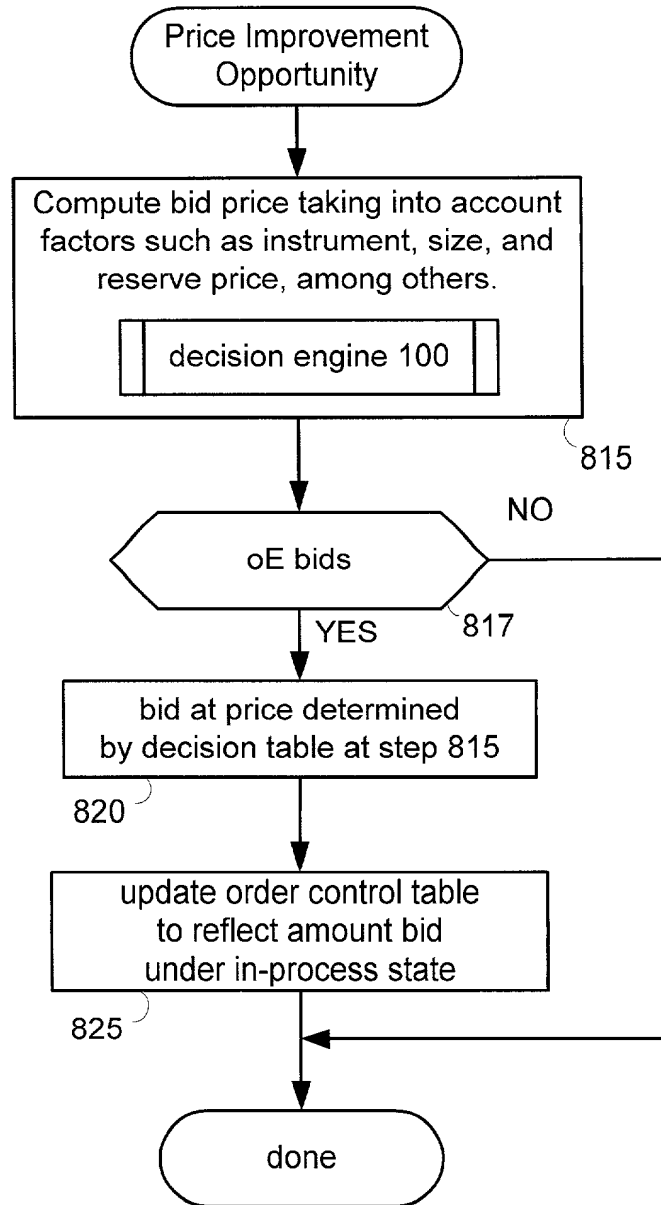


FIG. 35

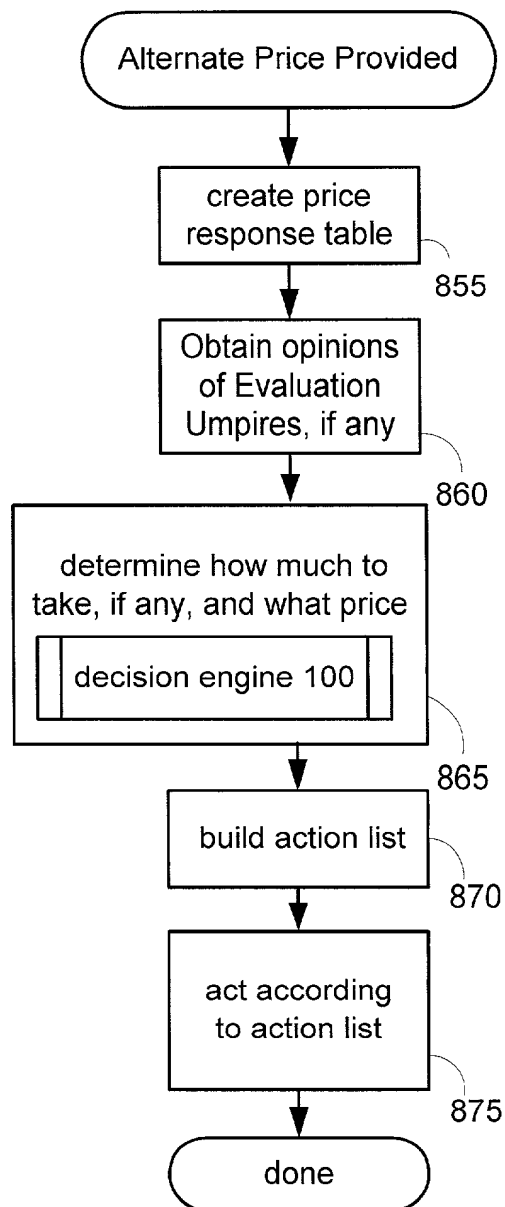


FIG. 36

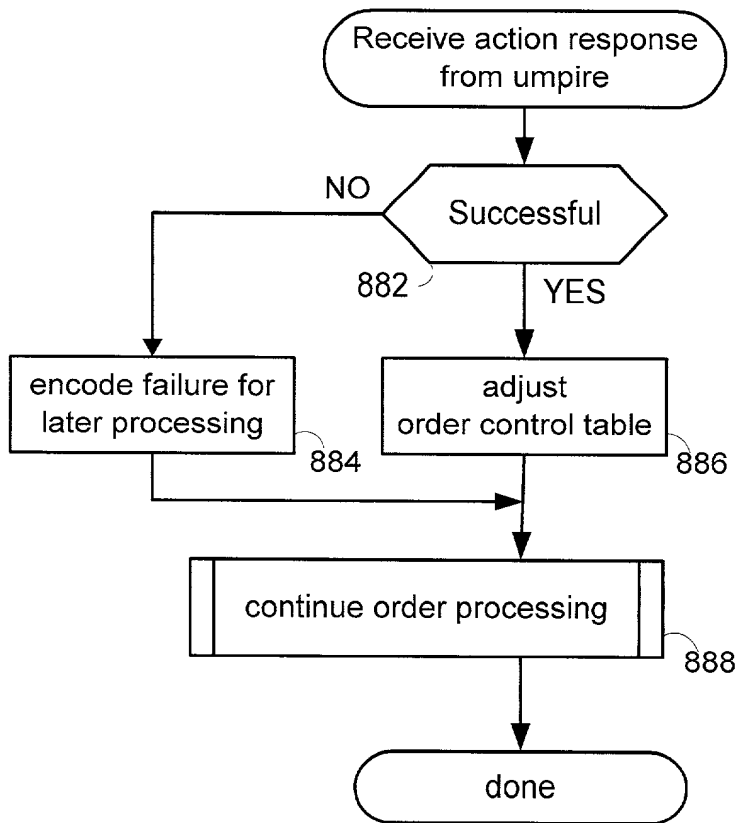


FIG. 37

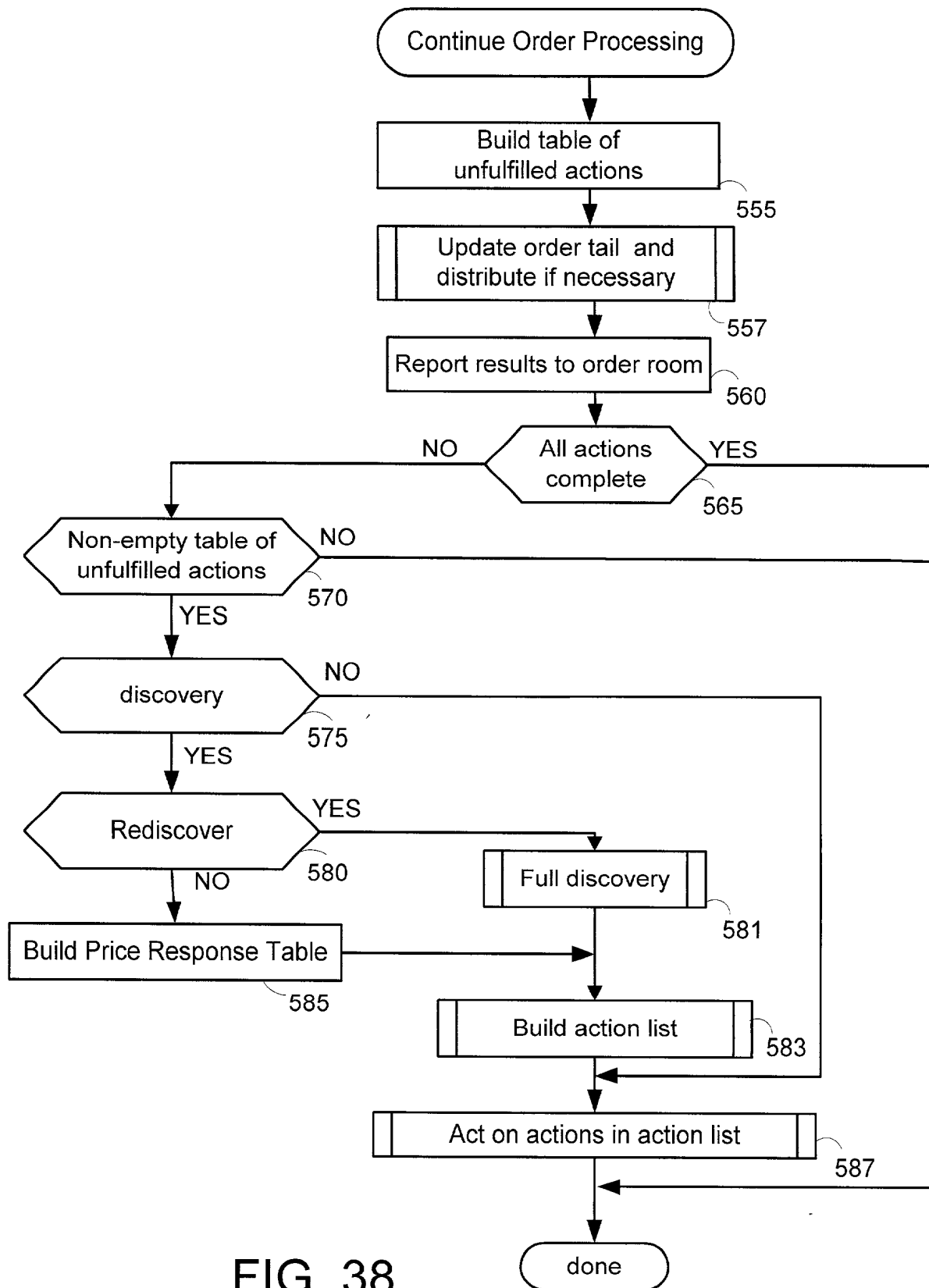


FIG. 38

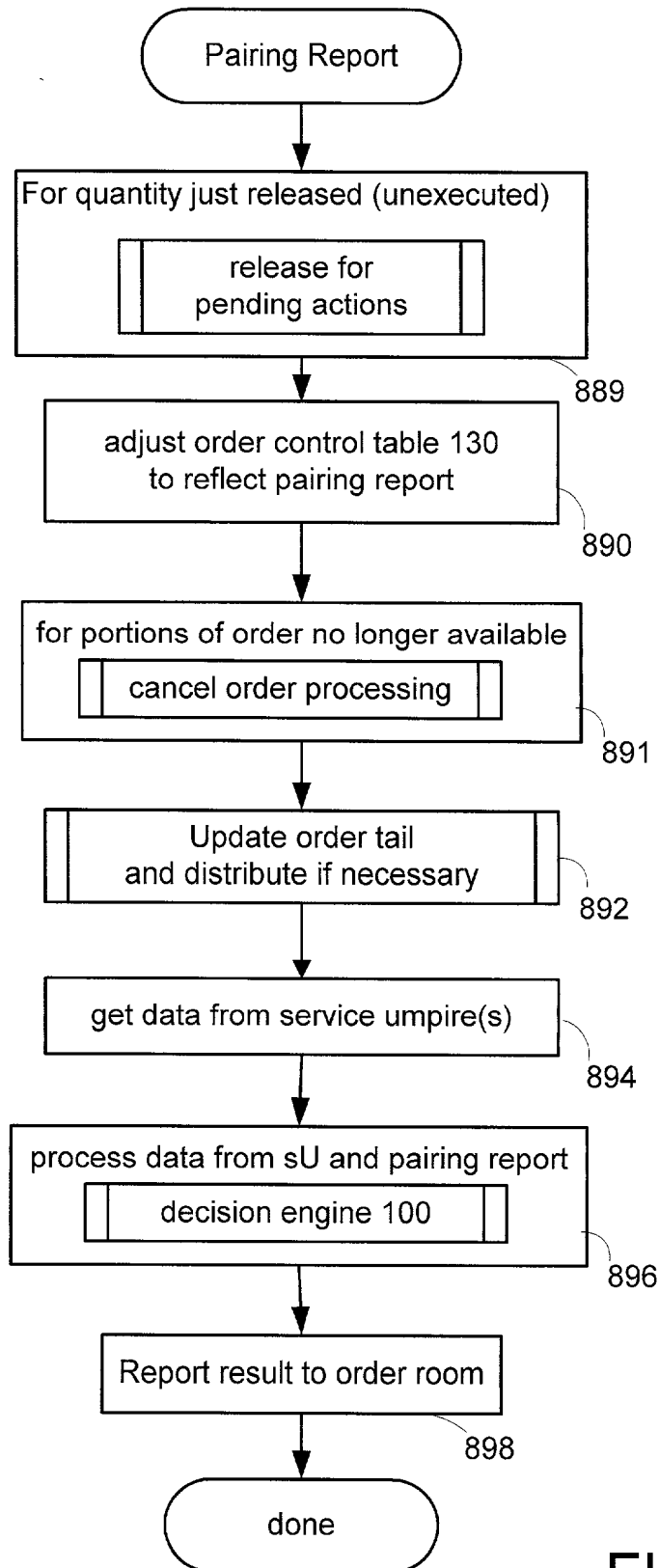


FIG. 39

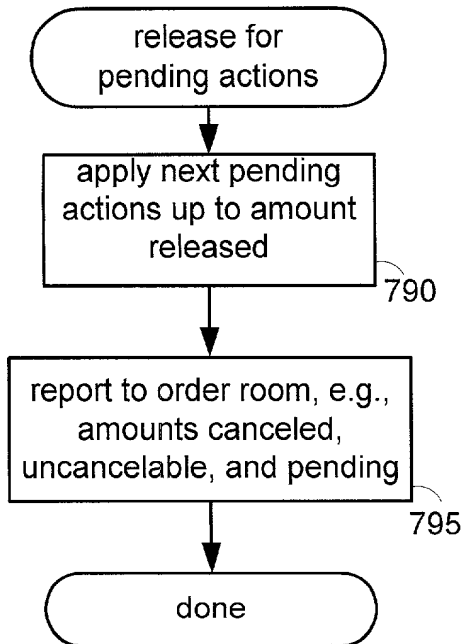


FIG. 40

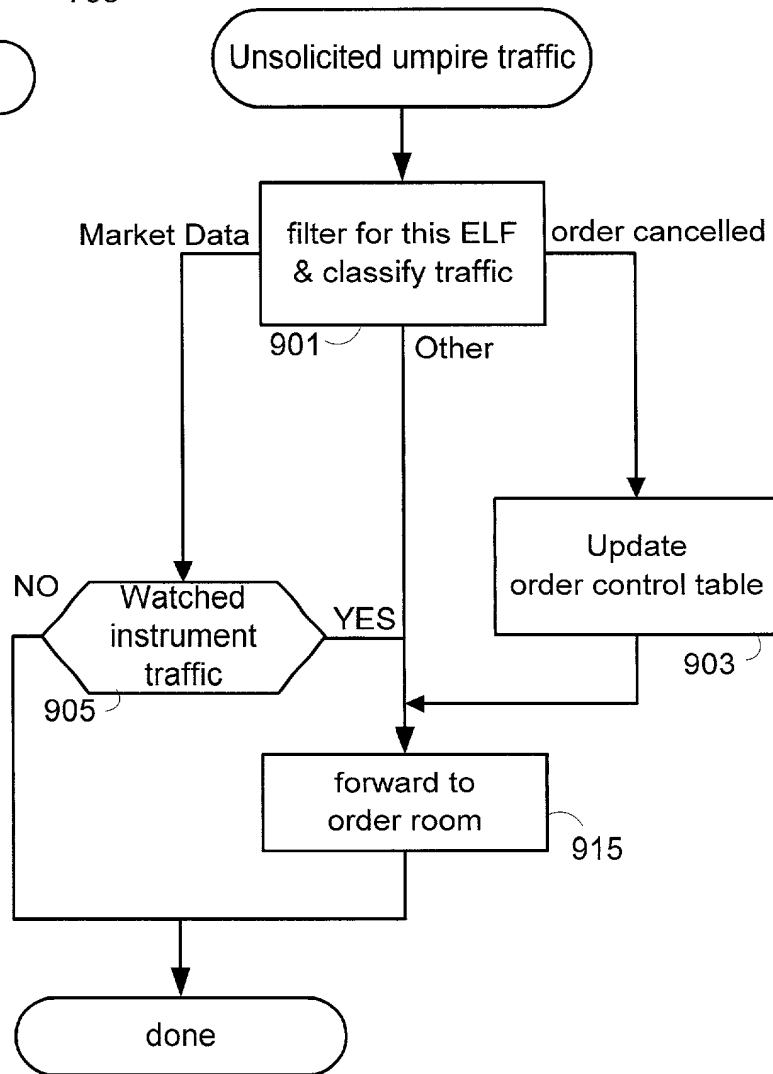


FIG. 41

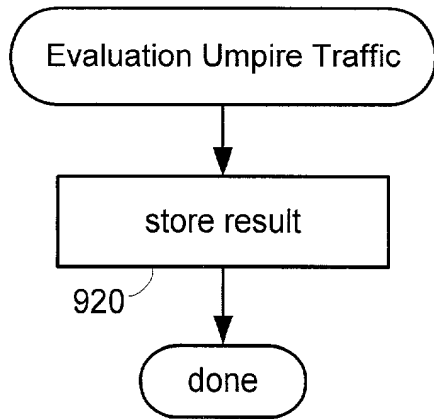


FIG. 42

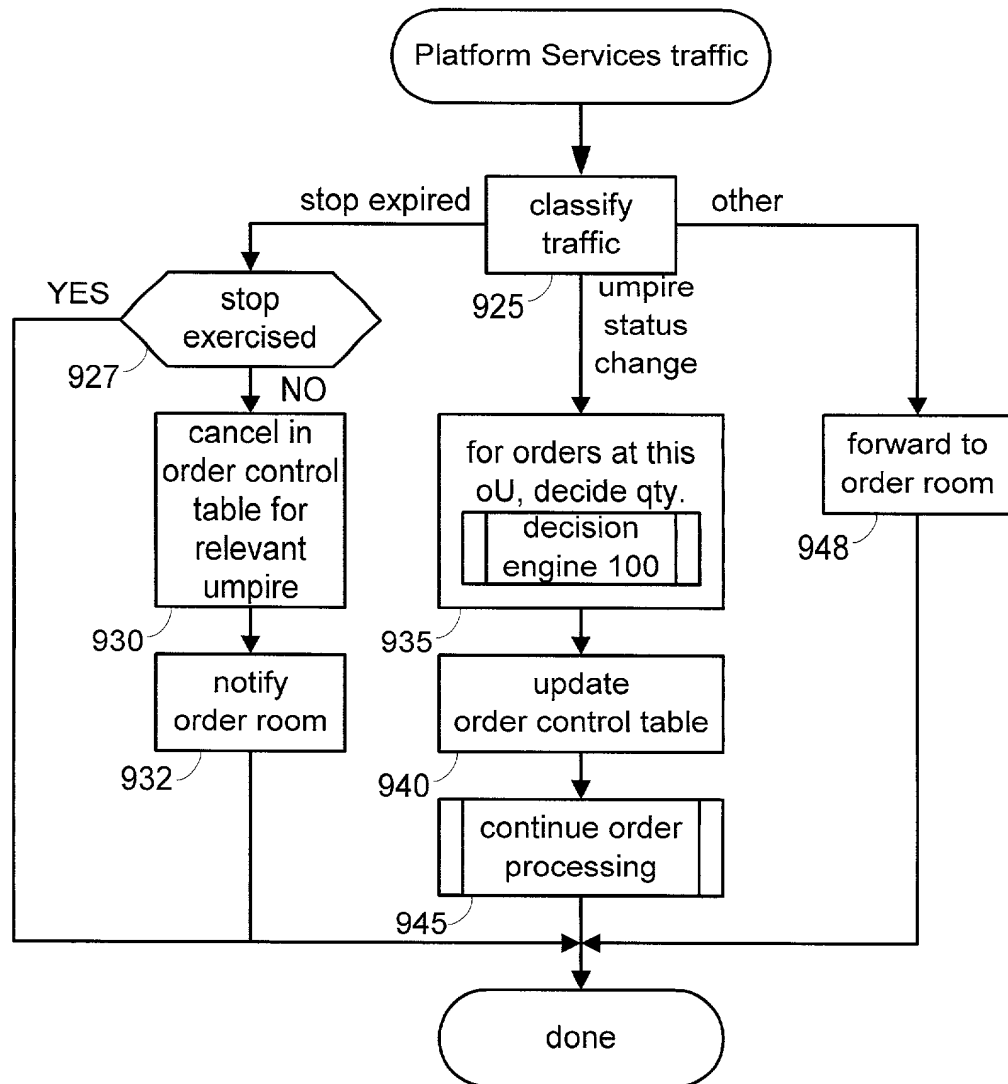


FIG. 43

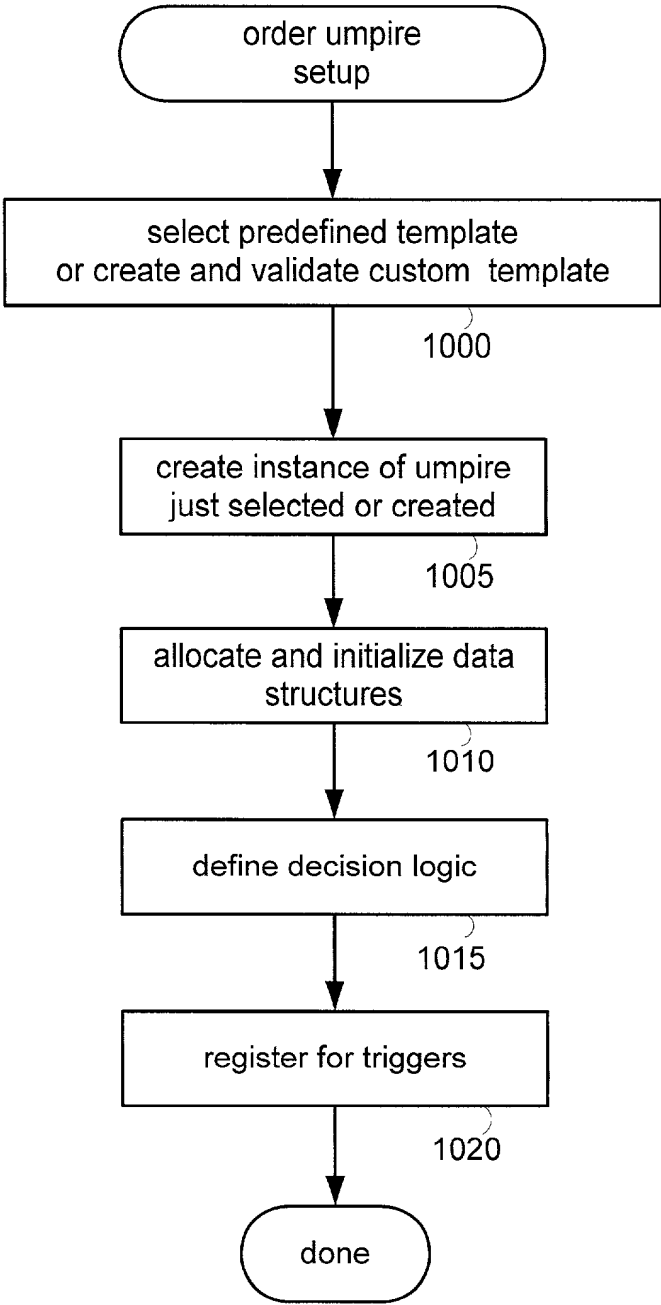


FIG. 44

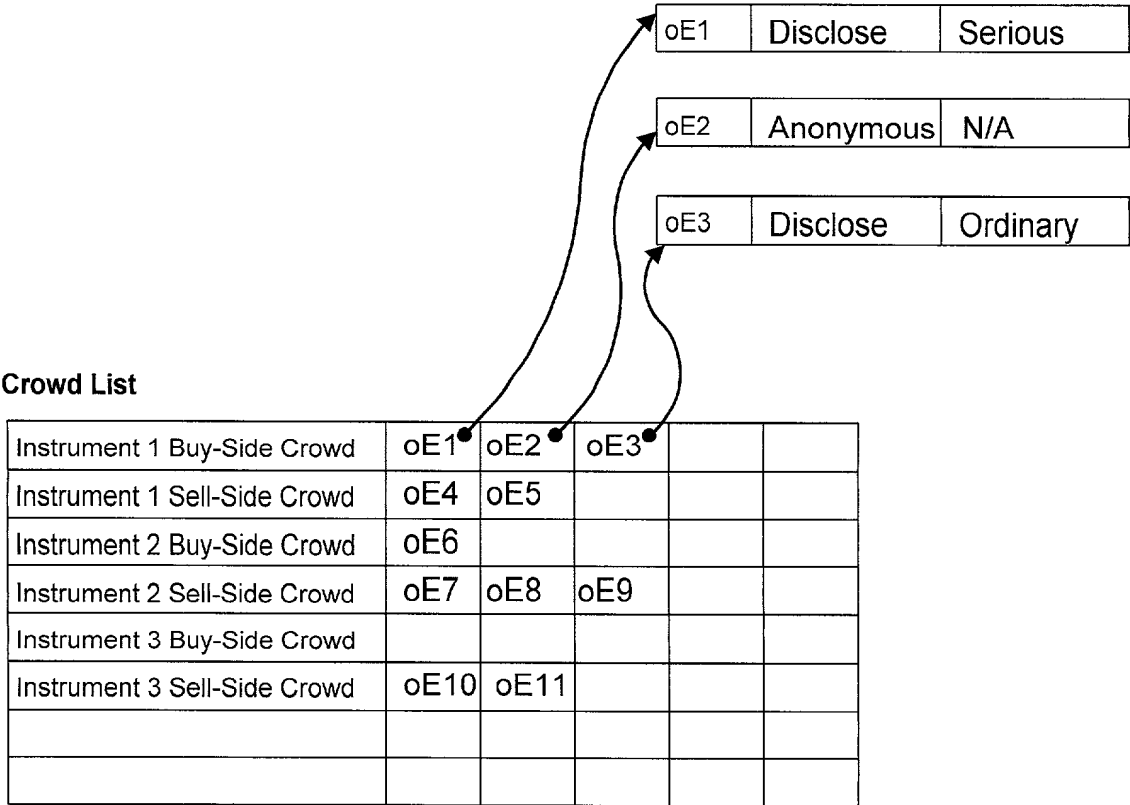


FIG. 45

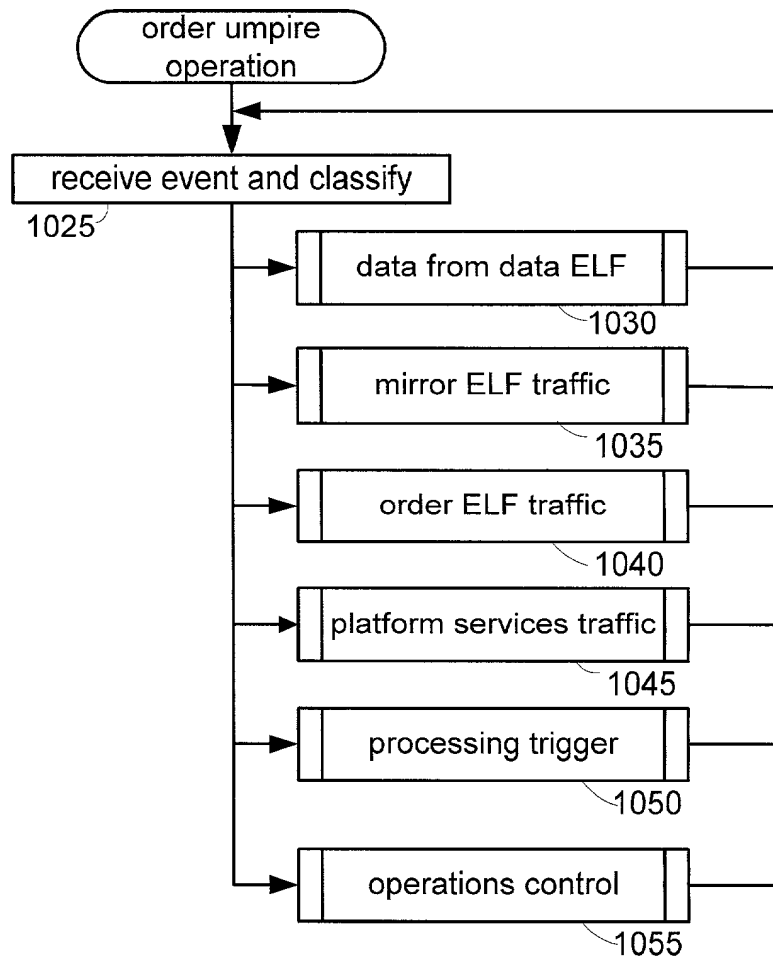


FIG. 46

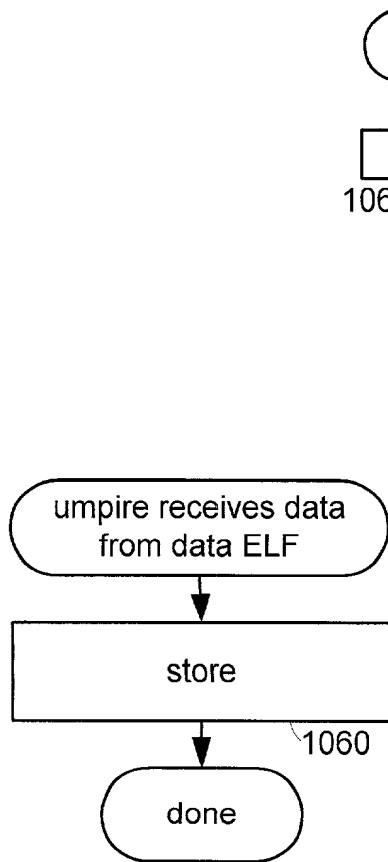


FIG. 47

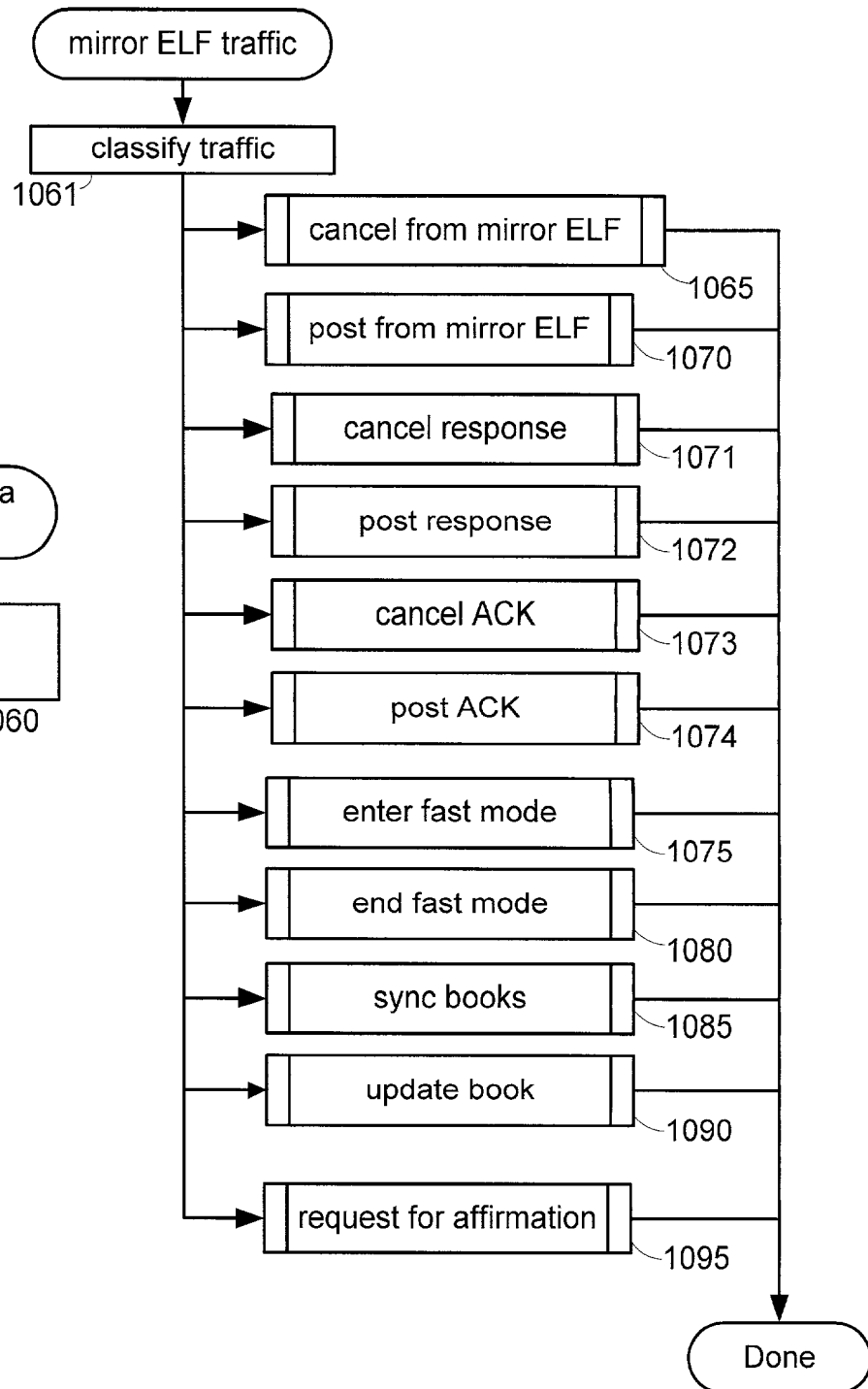


FIG. 48

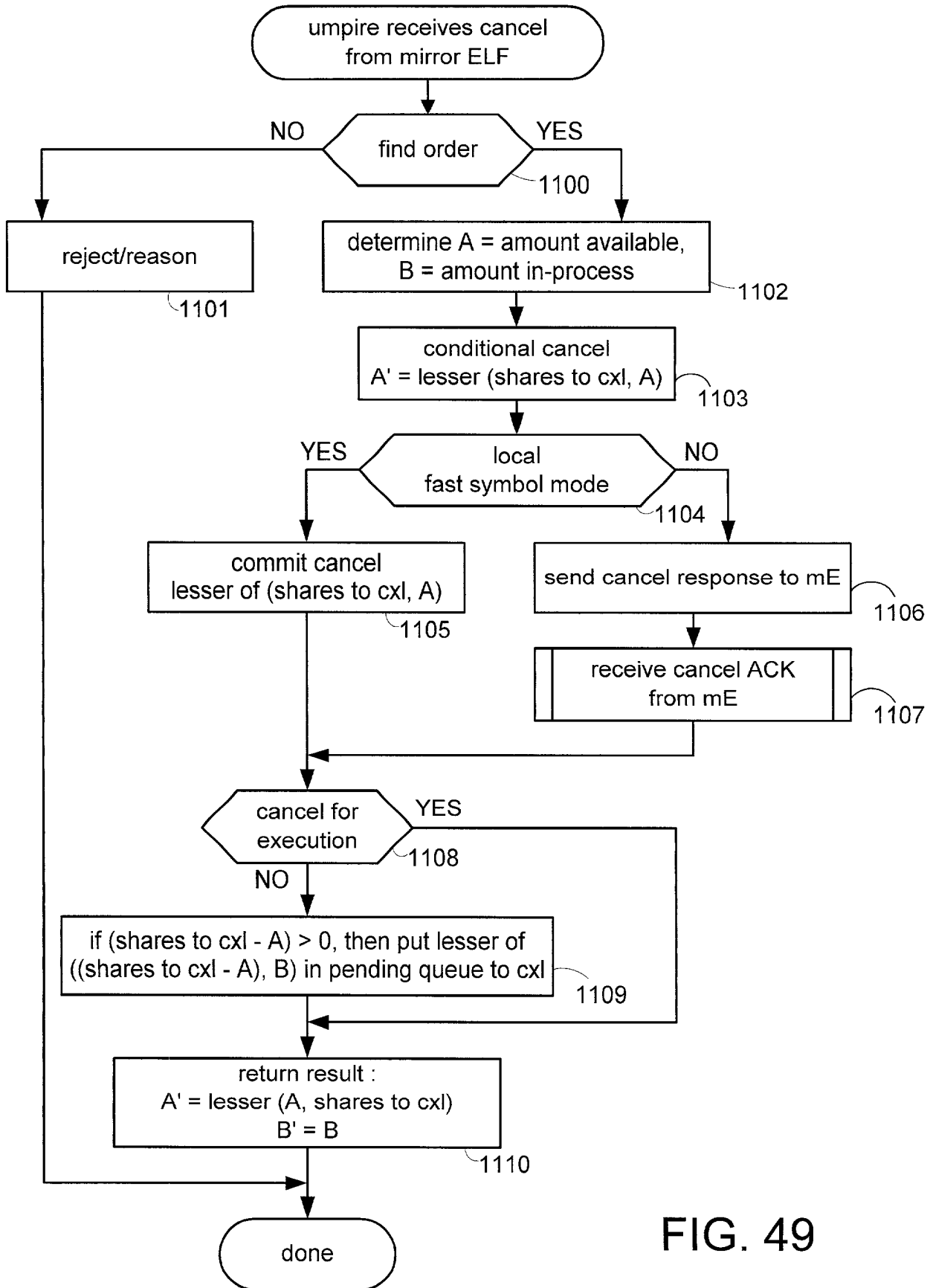


FIG. 49

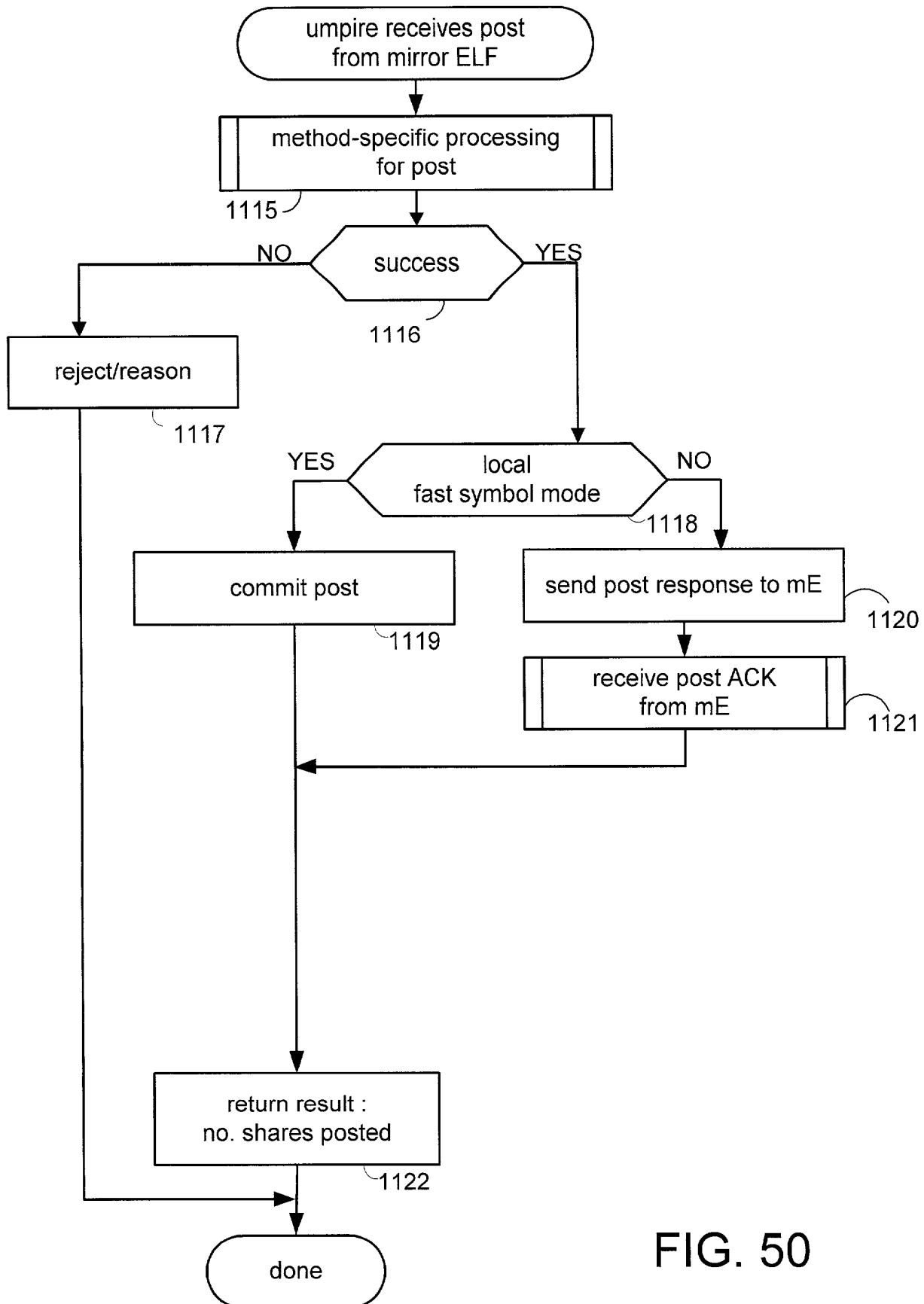


FIG. 50

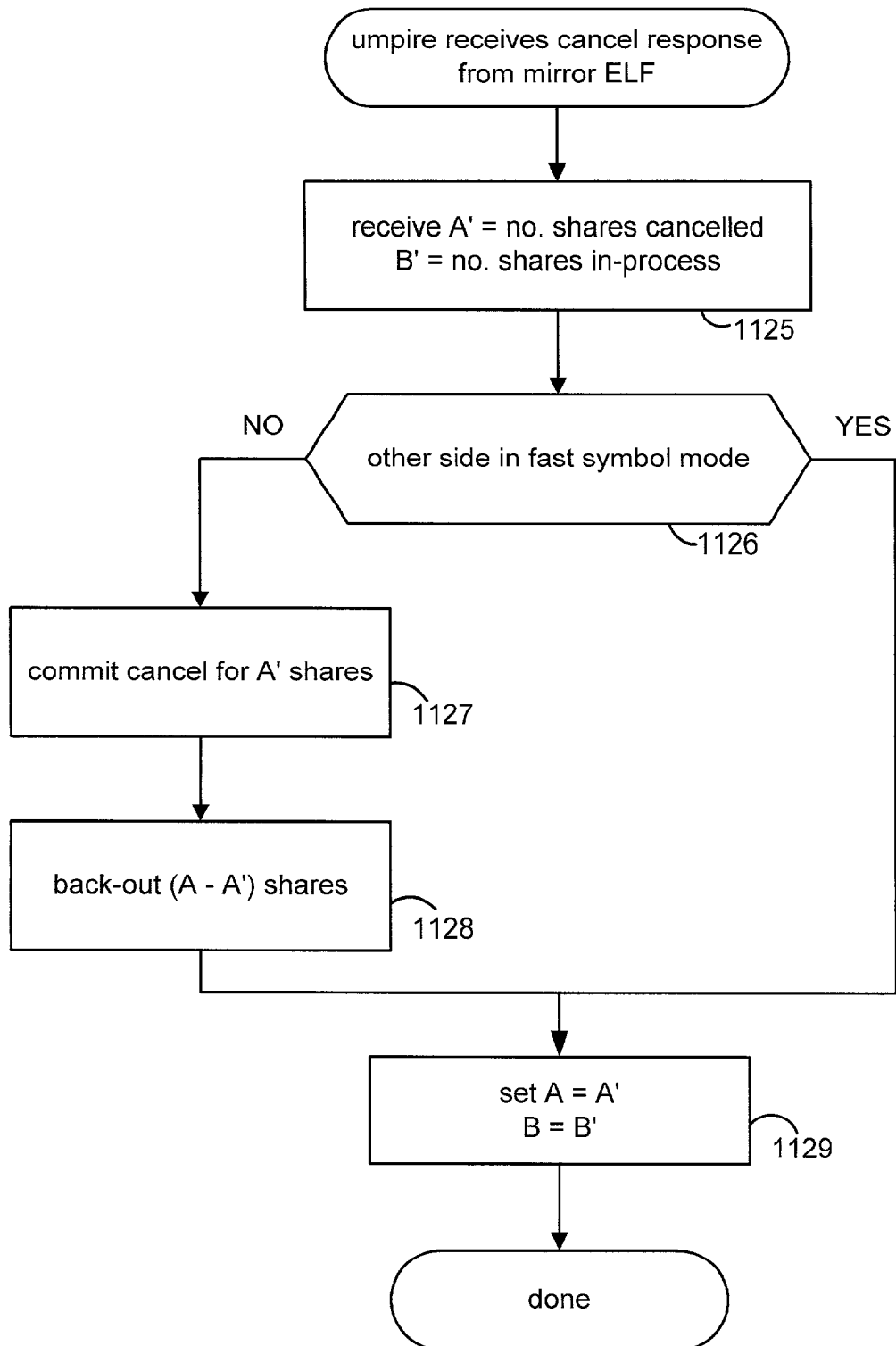


FIG. 51

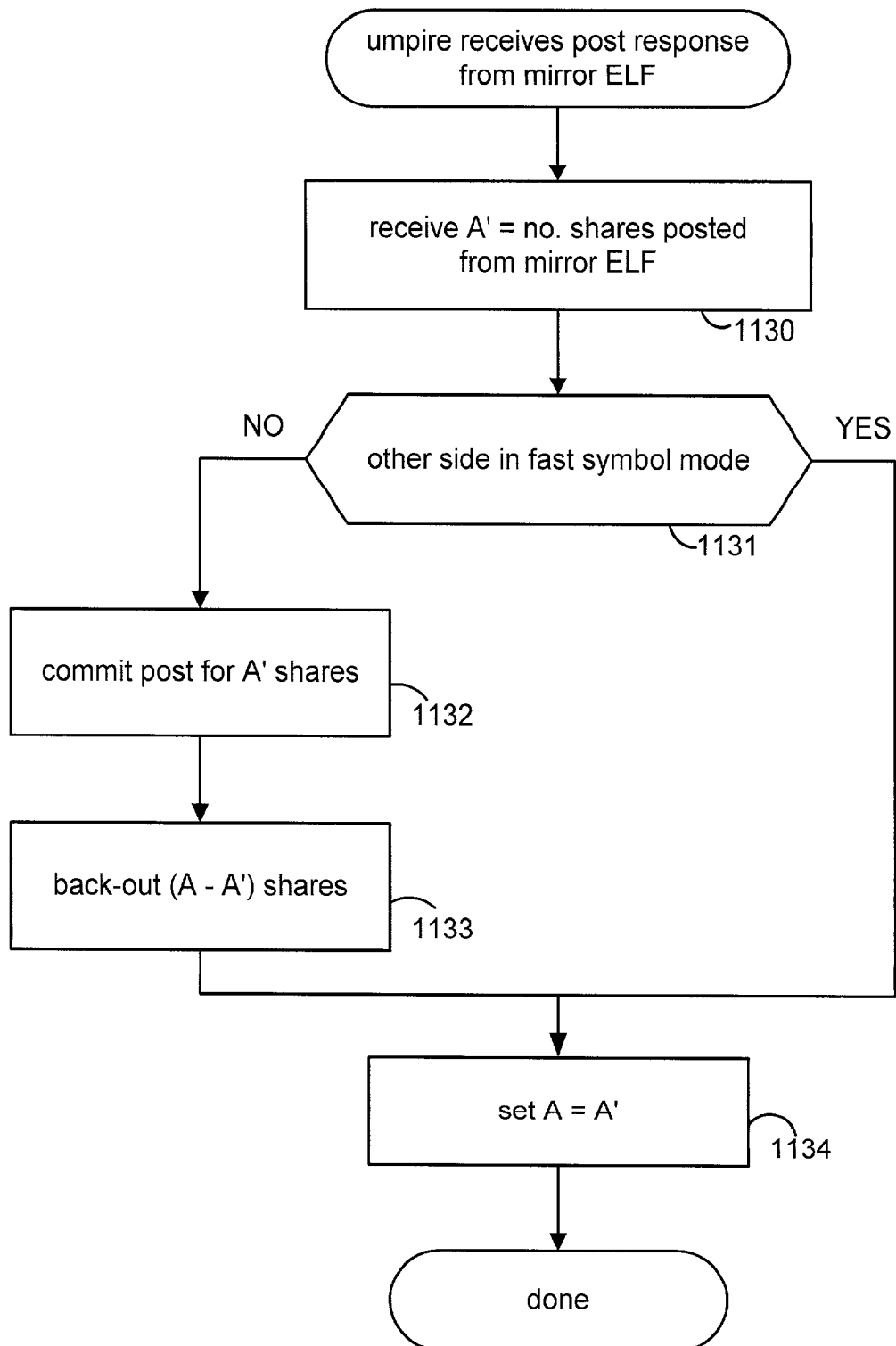


FIG. 52

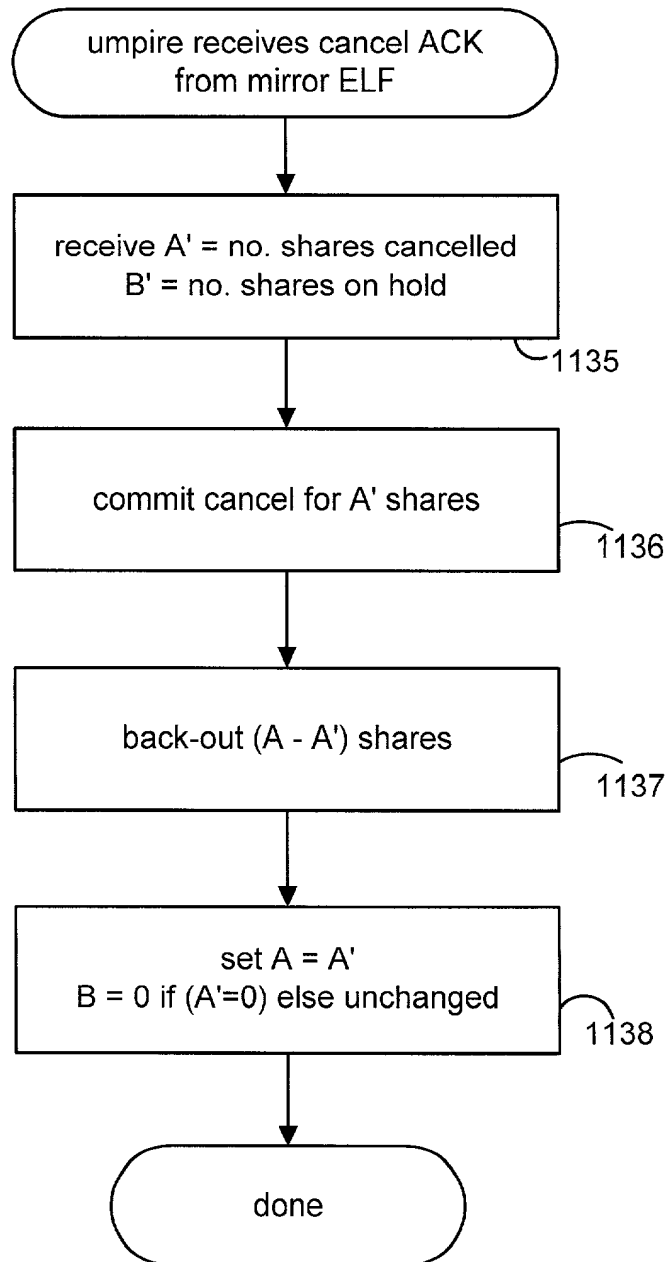


FIG. 53

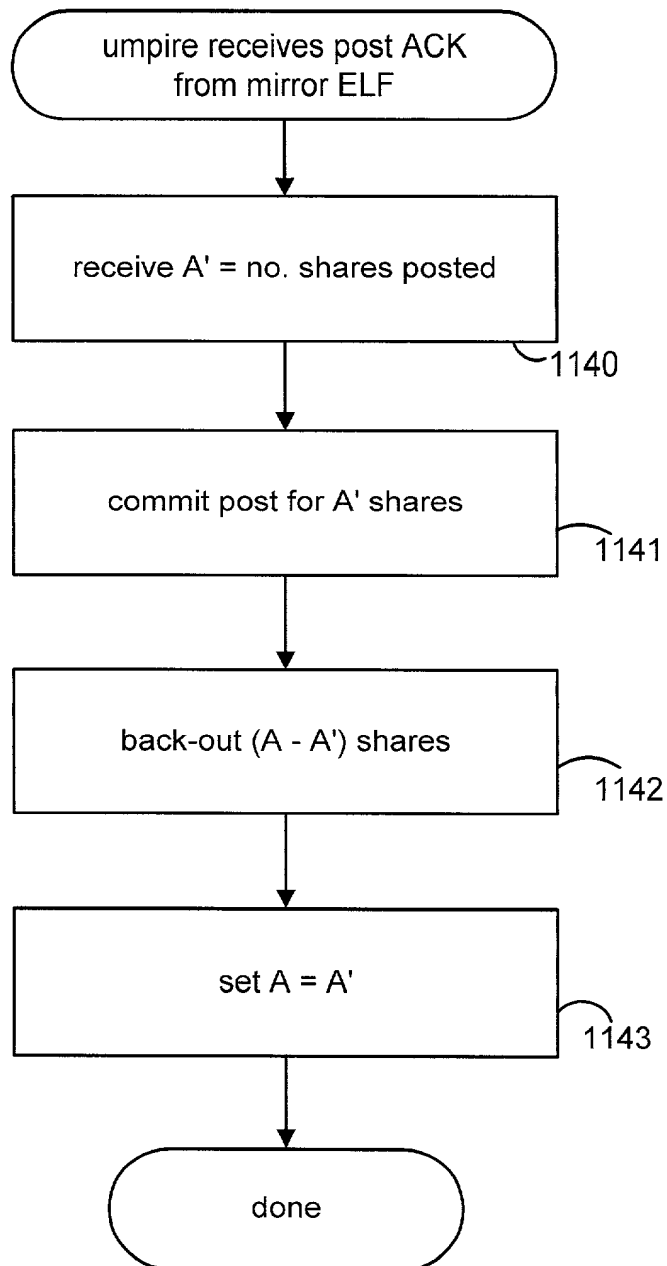


FIG. 54

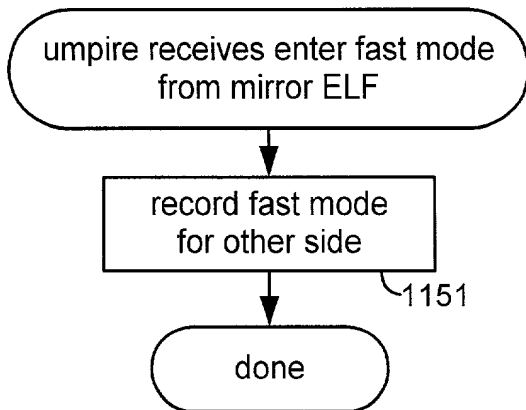


FIG. 55A

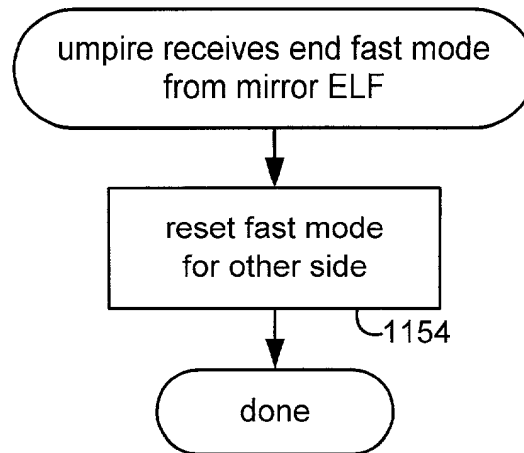


FIG. 55B

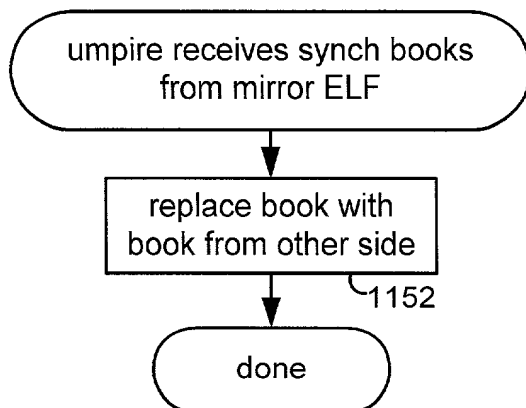


FIG. 56

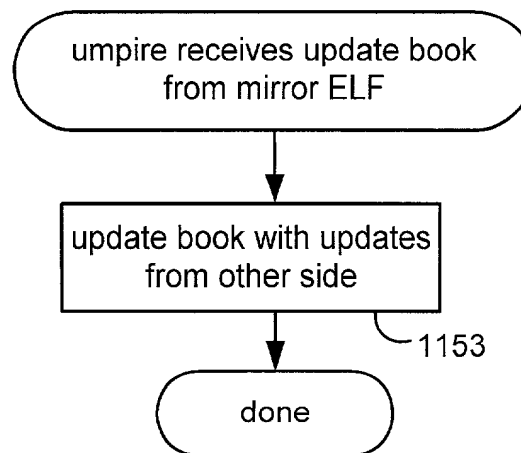


FIG. 57

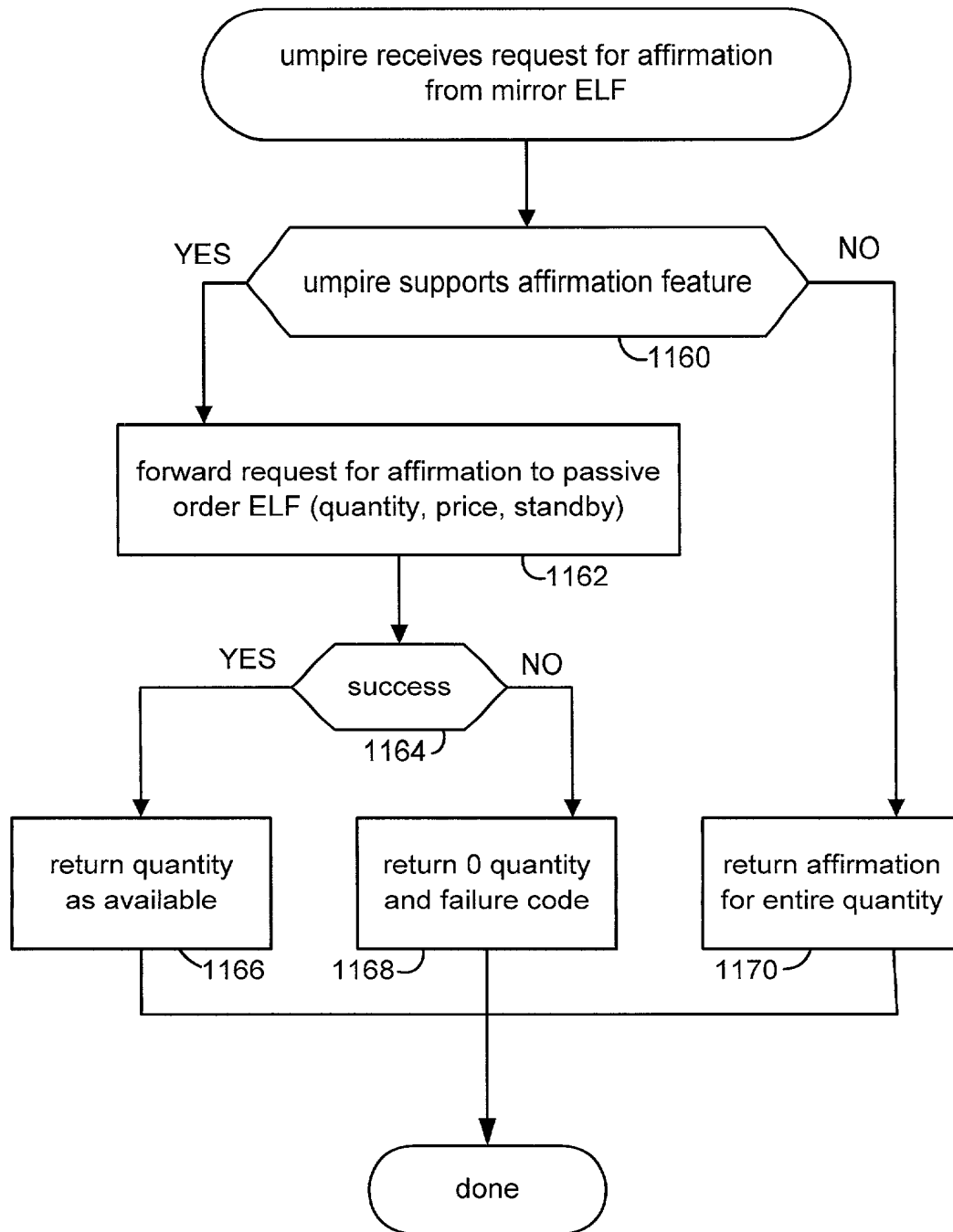
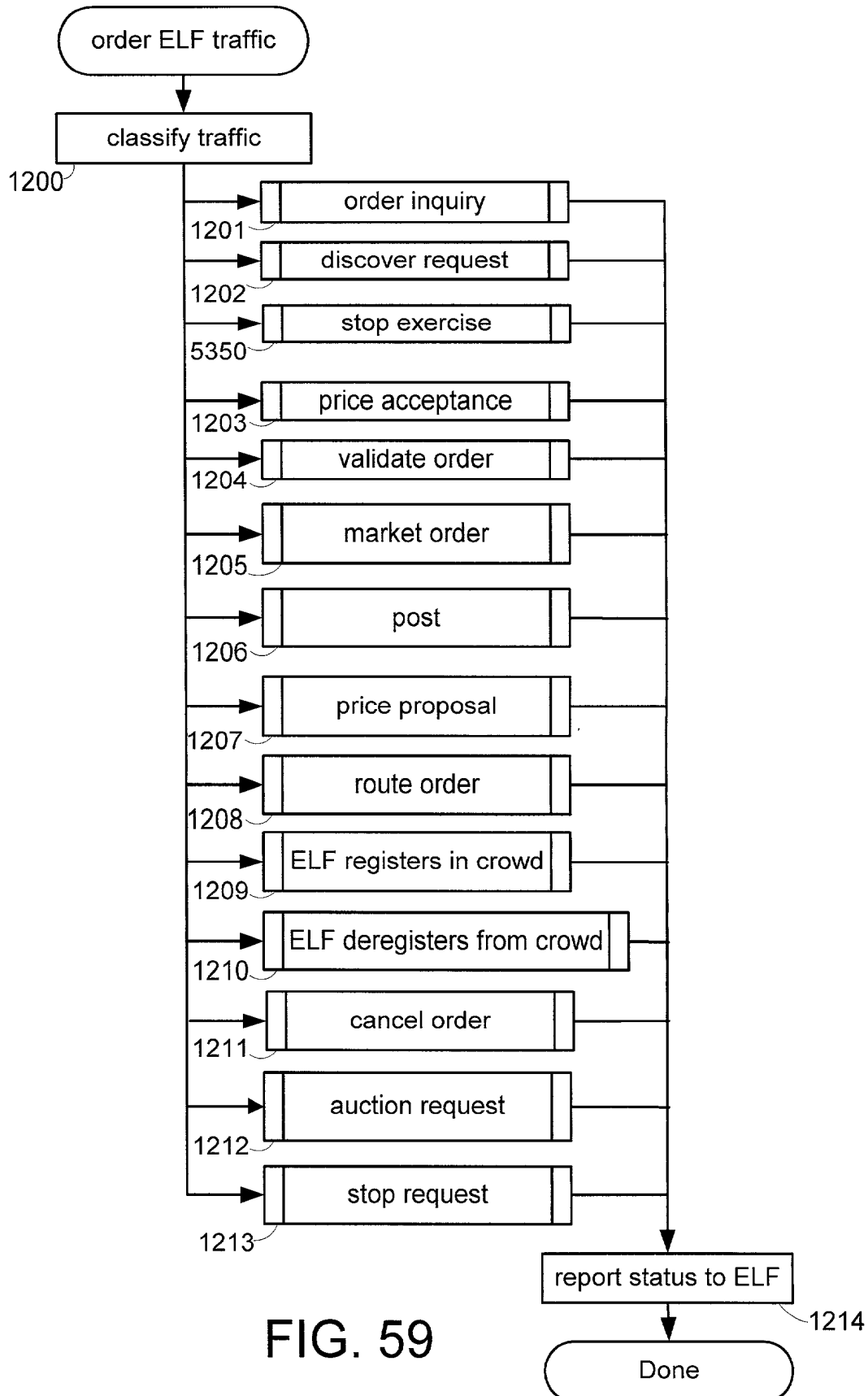


FIG. 58



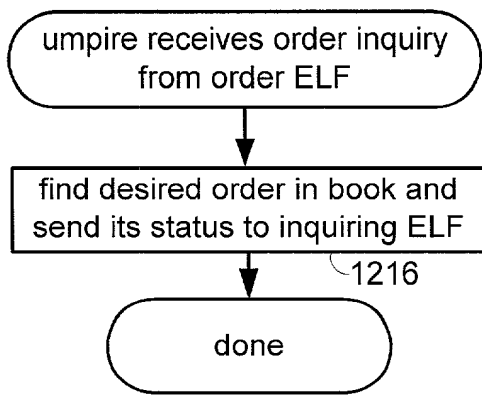


FIG. 60

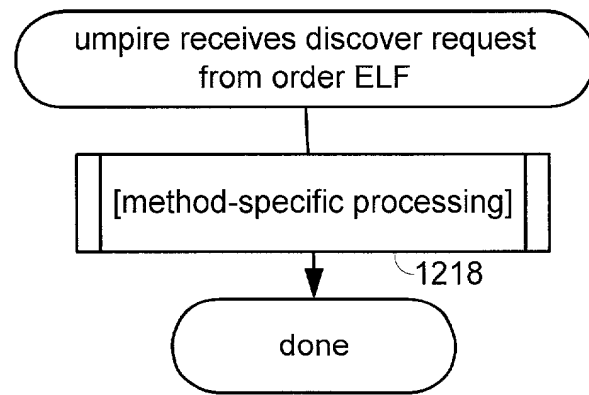


FIG. 61

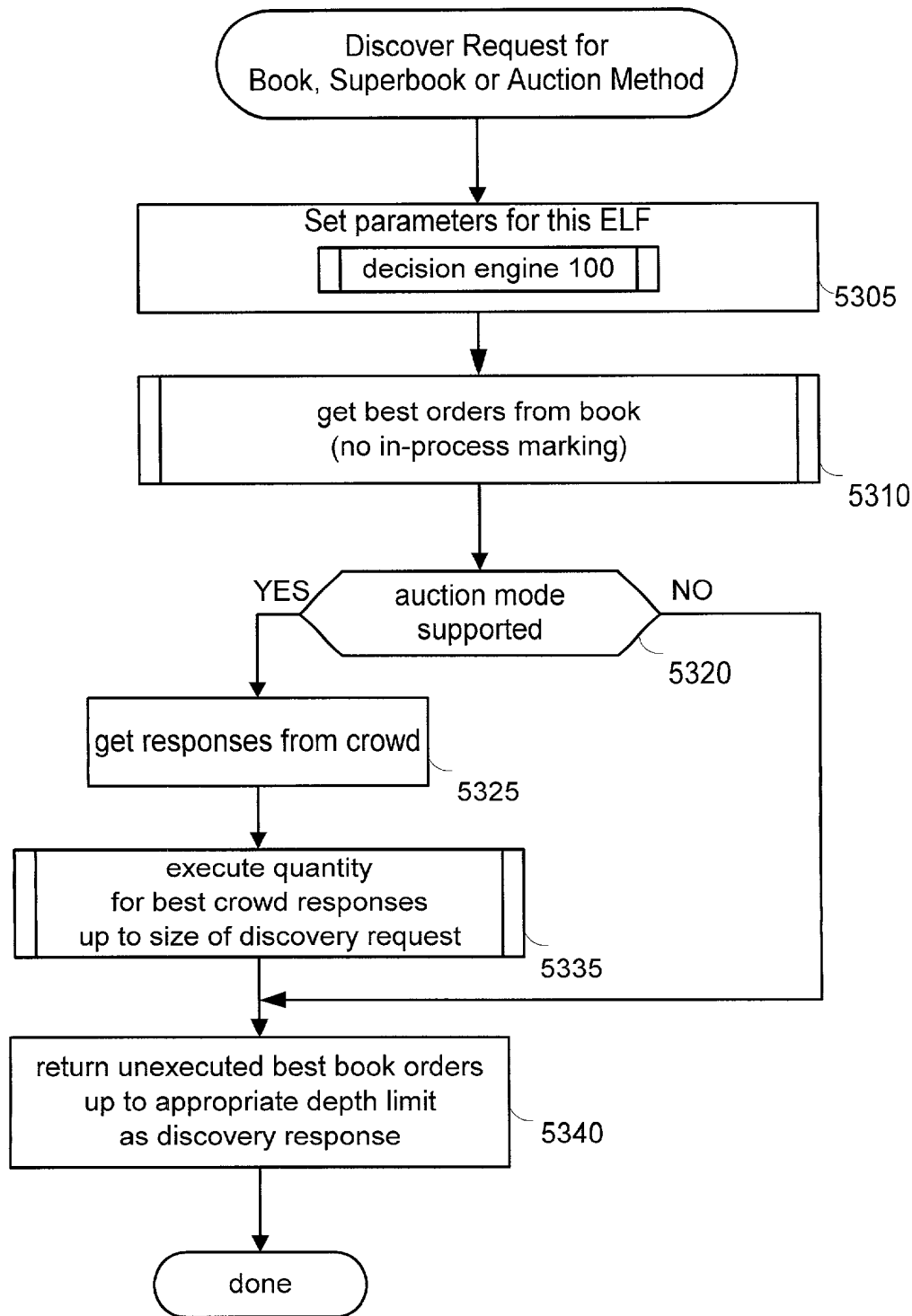


FIG. 62

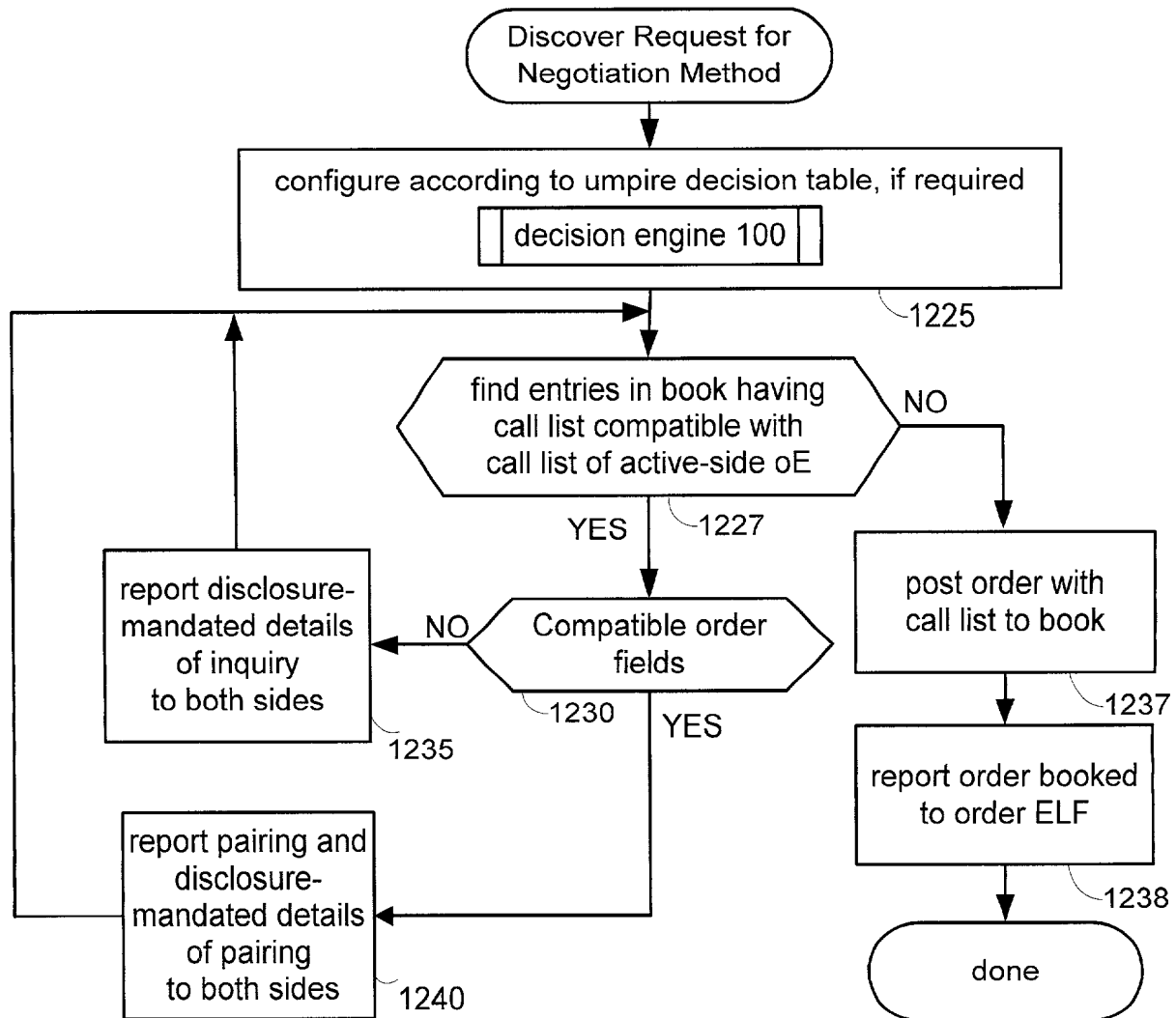


FIG. 63

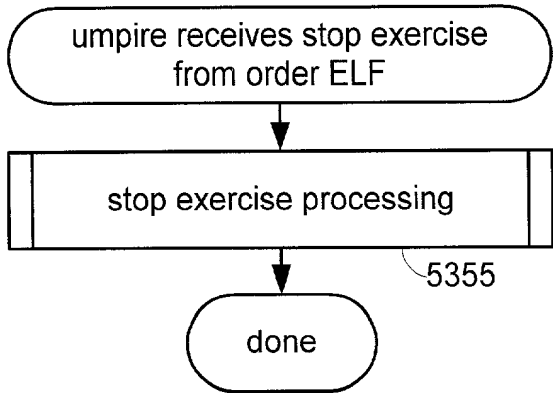


FIG. 64A

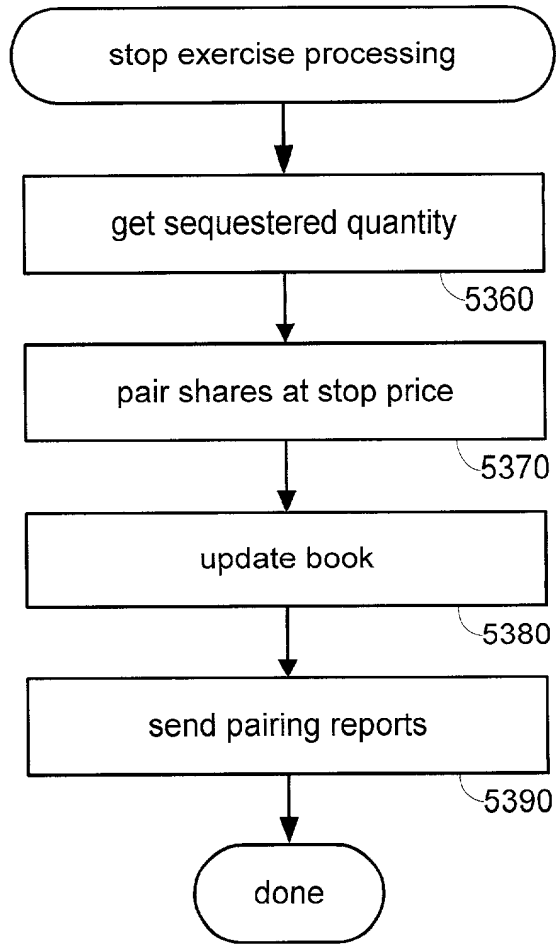


FIG. 64B

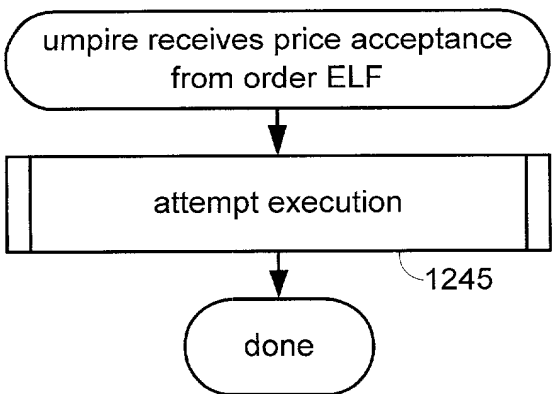
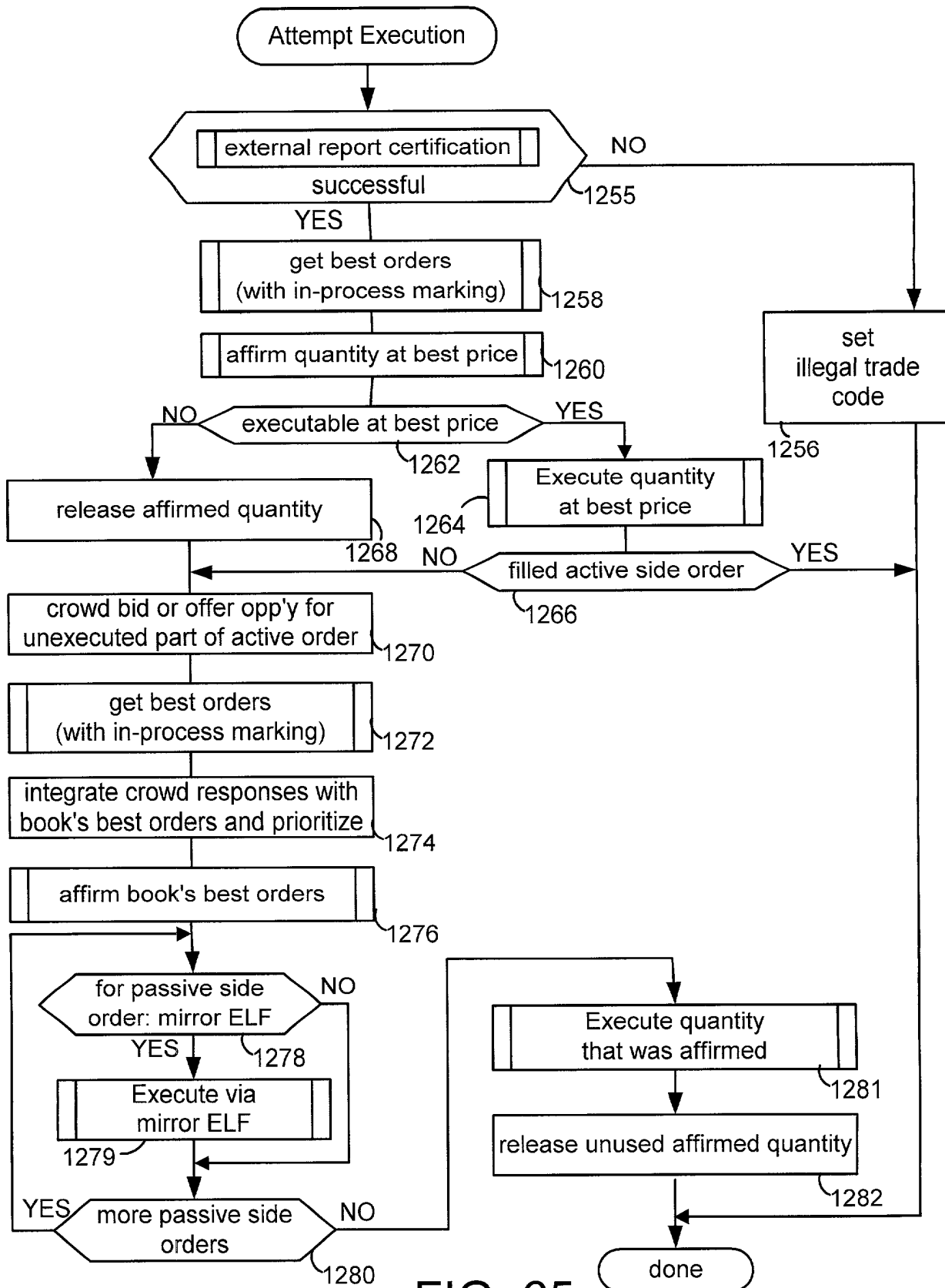


FIG. 64C



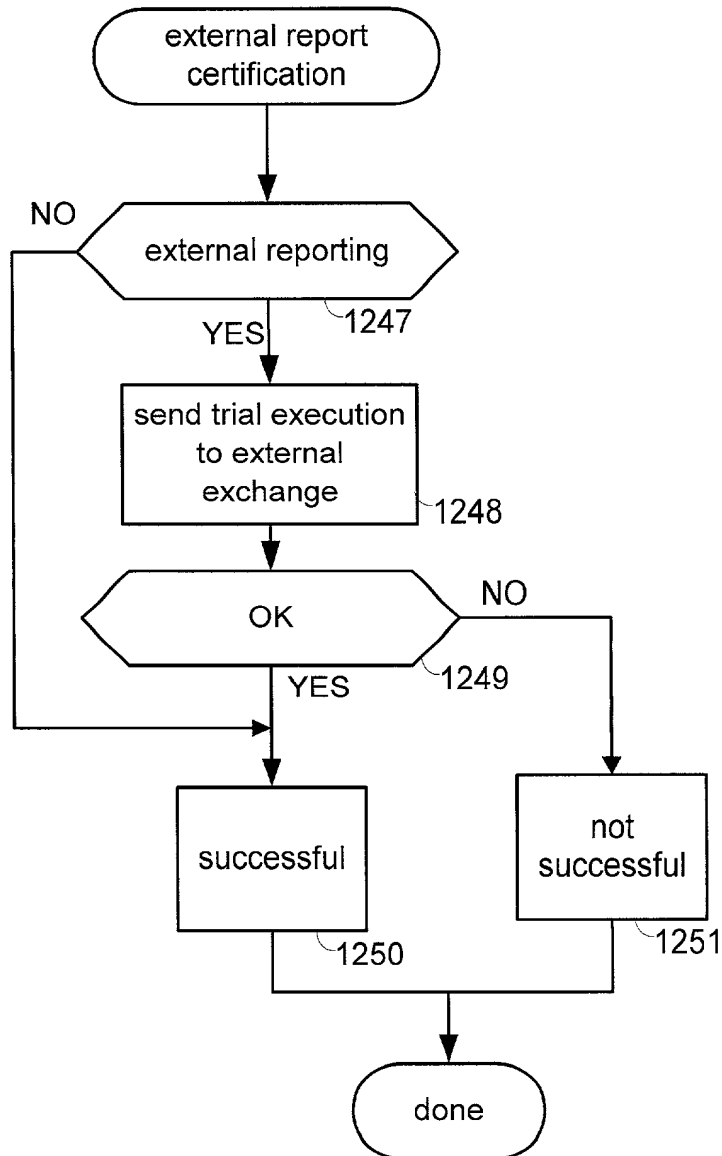


FIG. 66

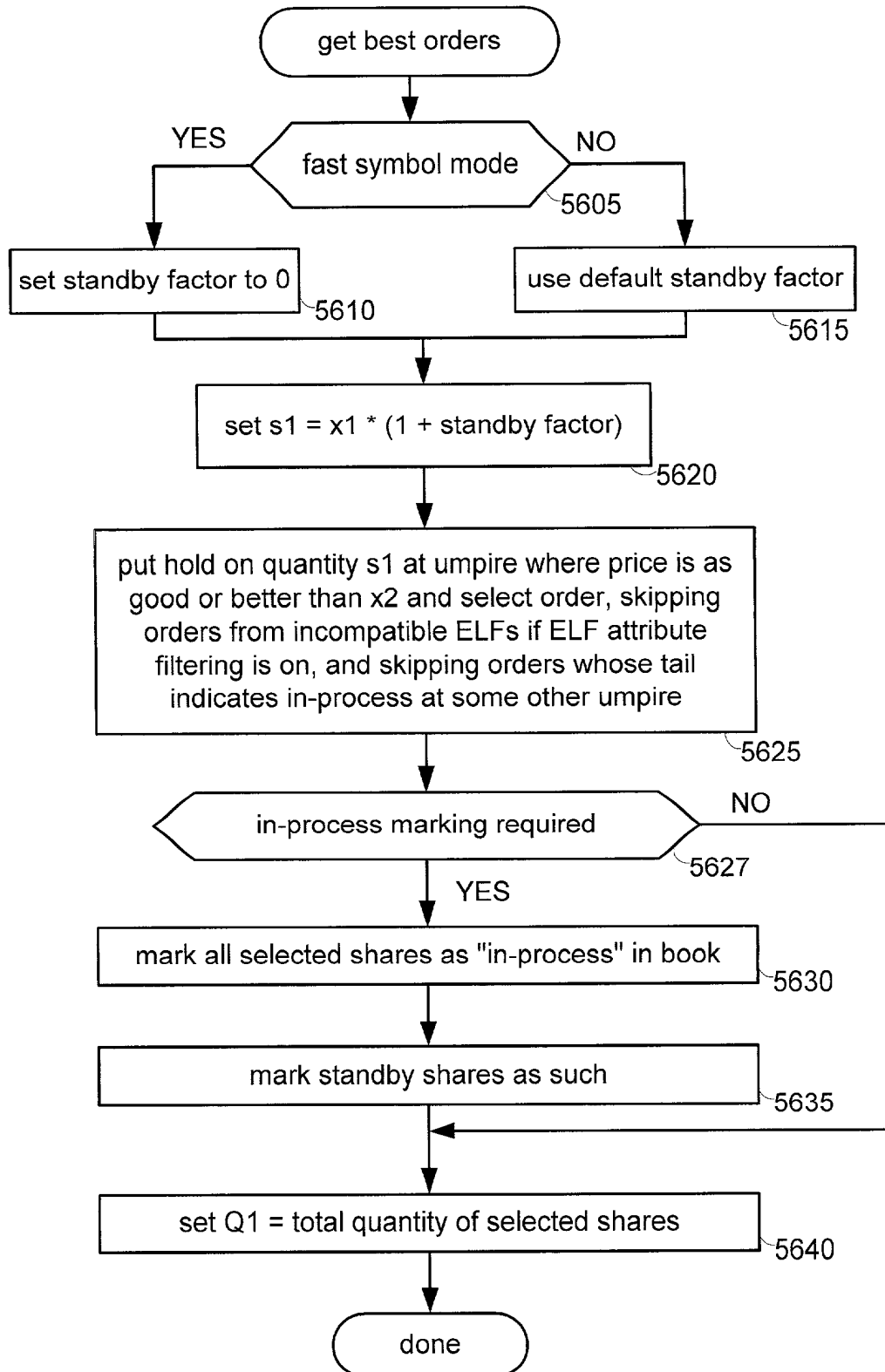


FIG. 67

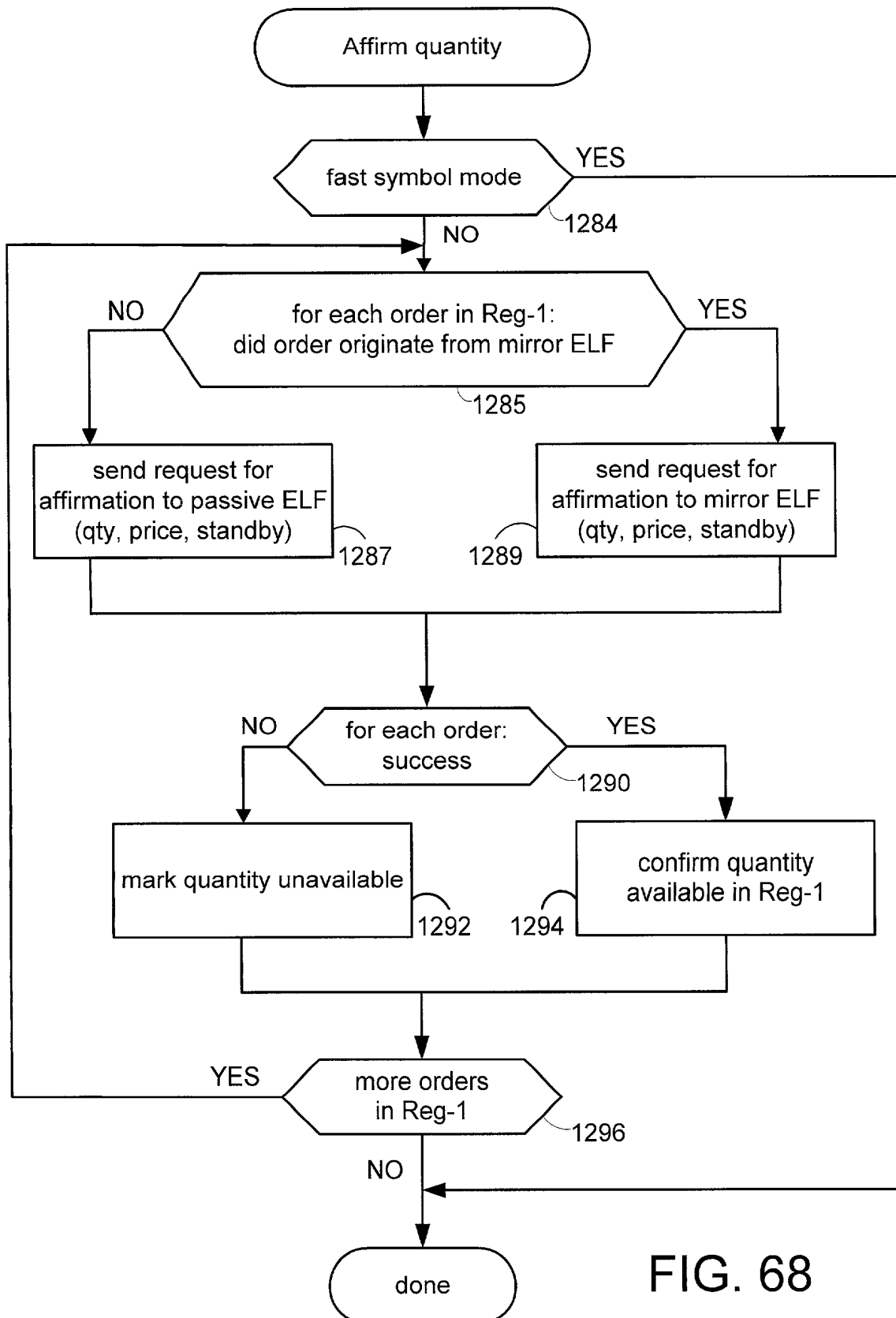


FIG. 68

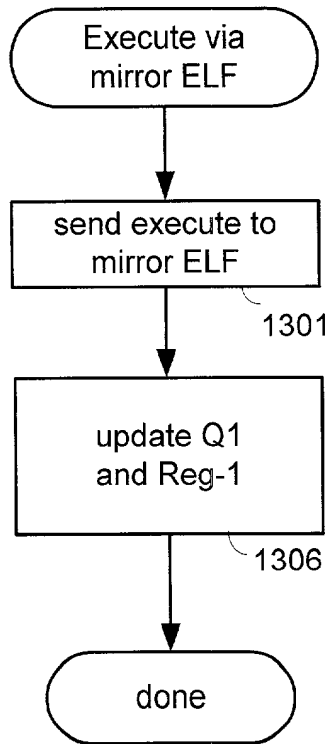


FIG. 69

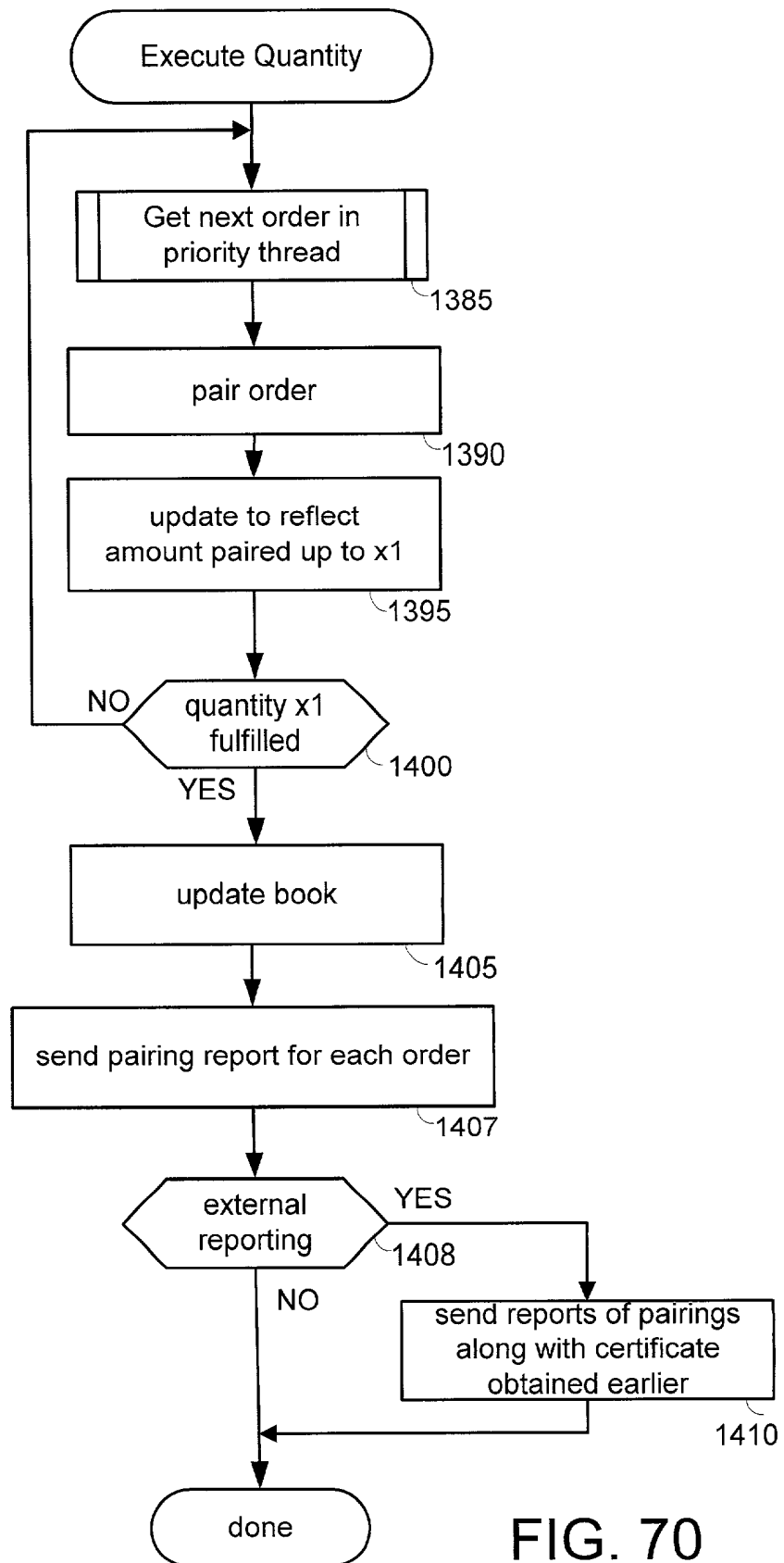


FIG. 70

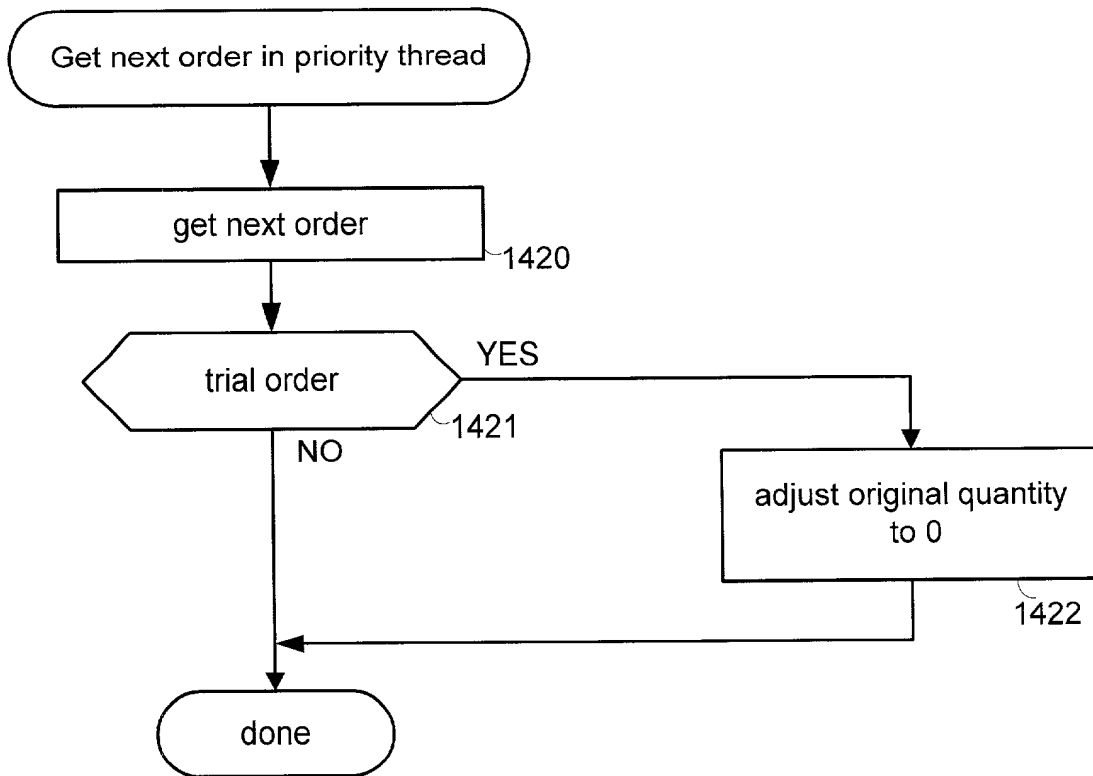


FIG. 71

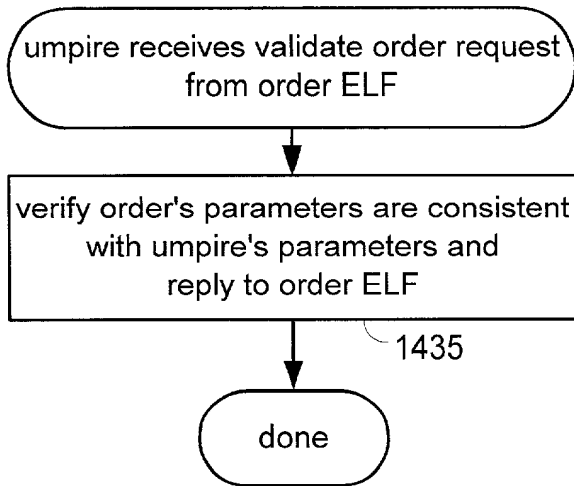


FIG. 72

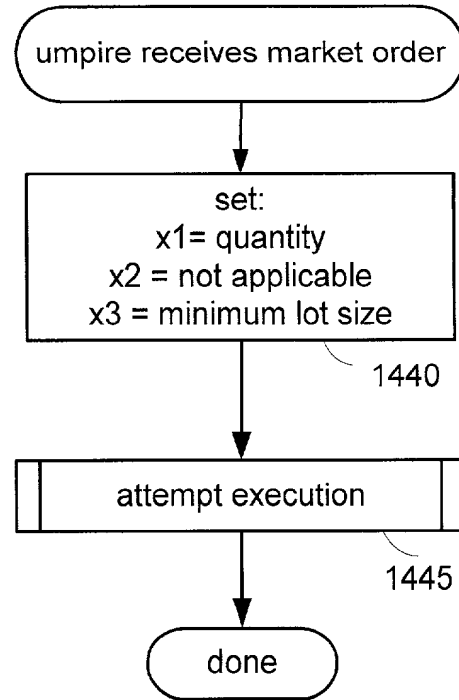


FIG. 73

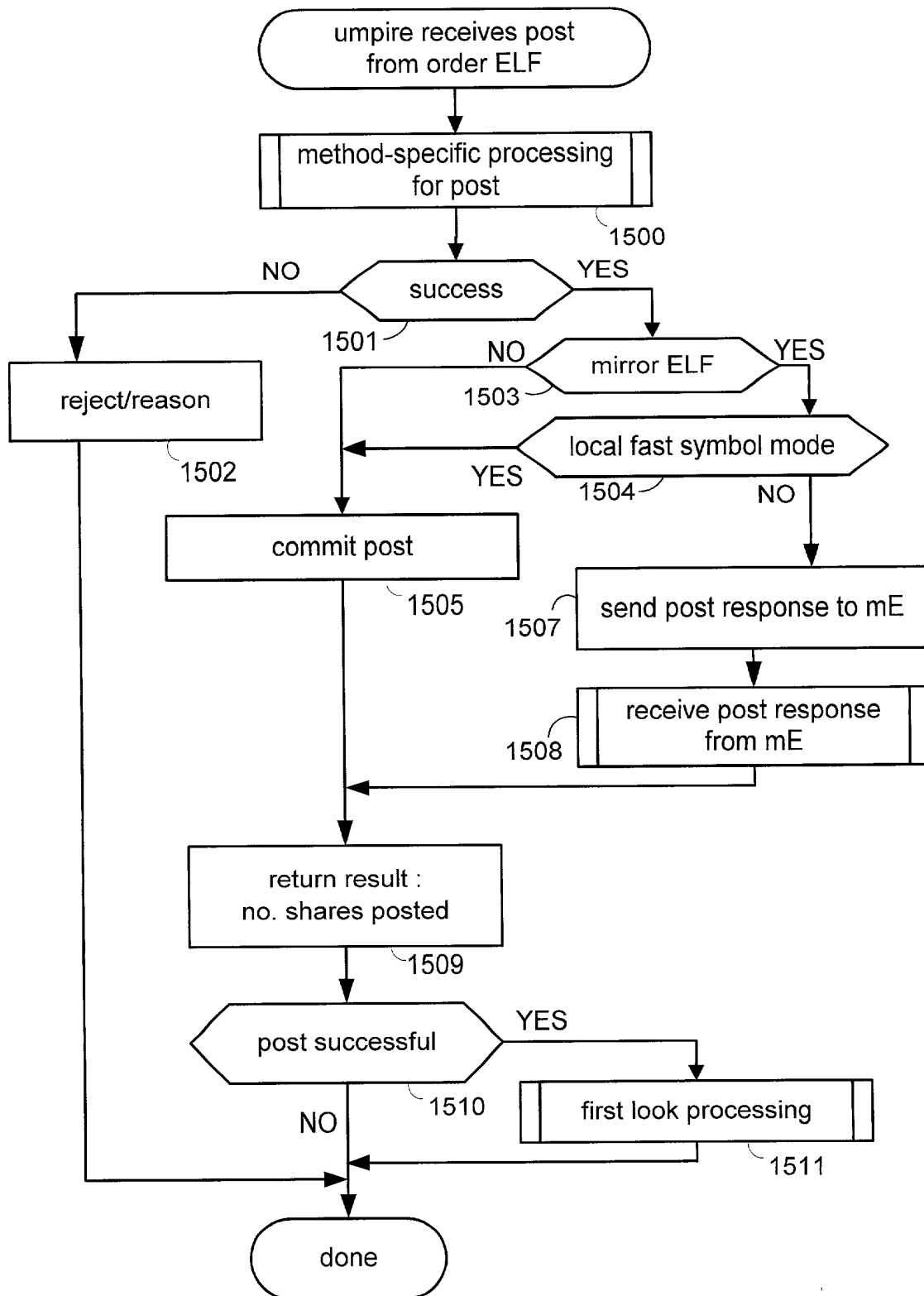


FIG. 74

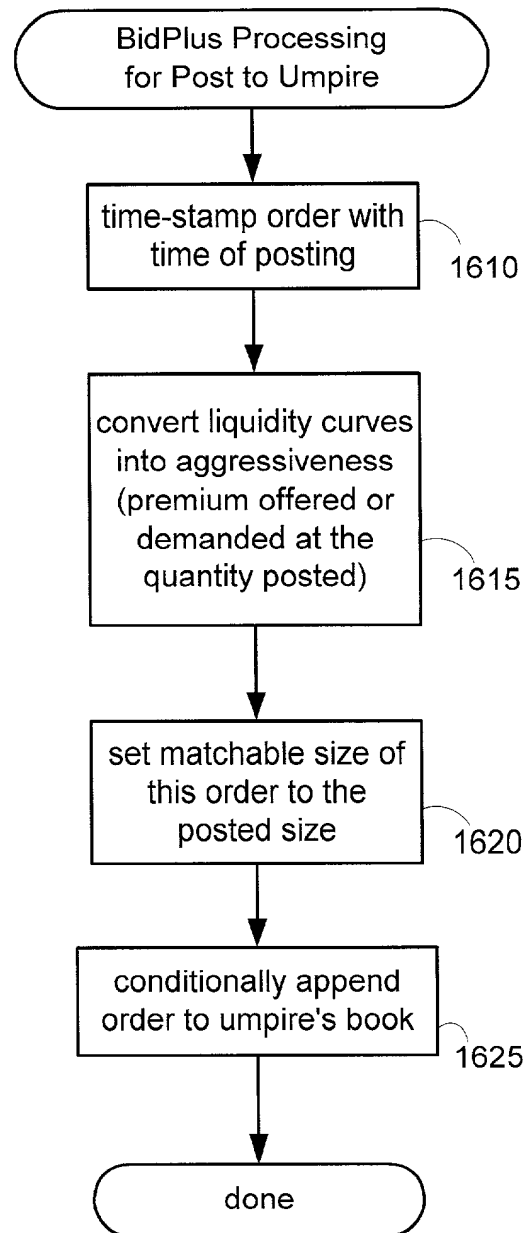


FIG. 75

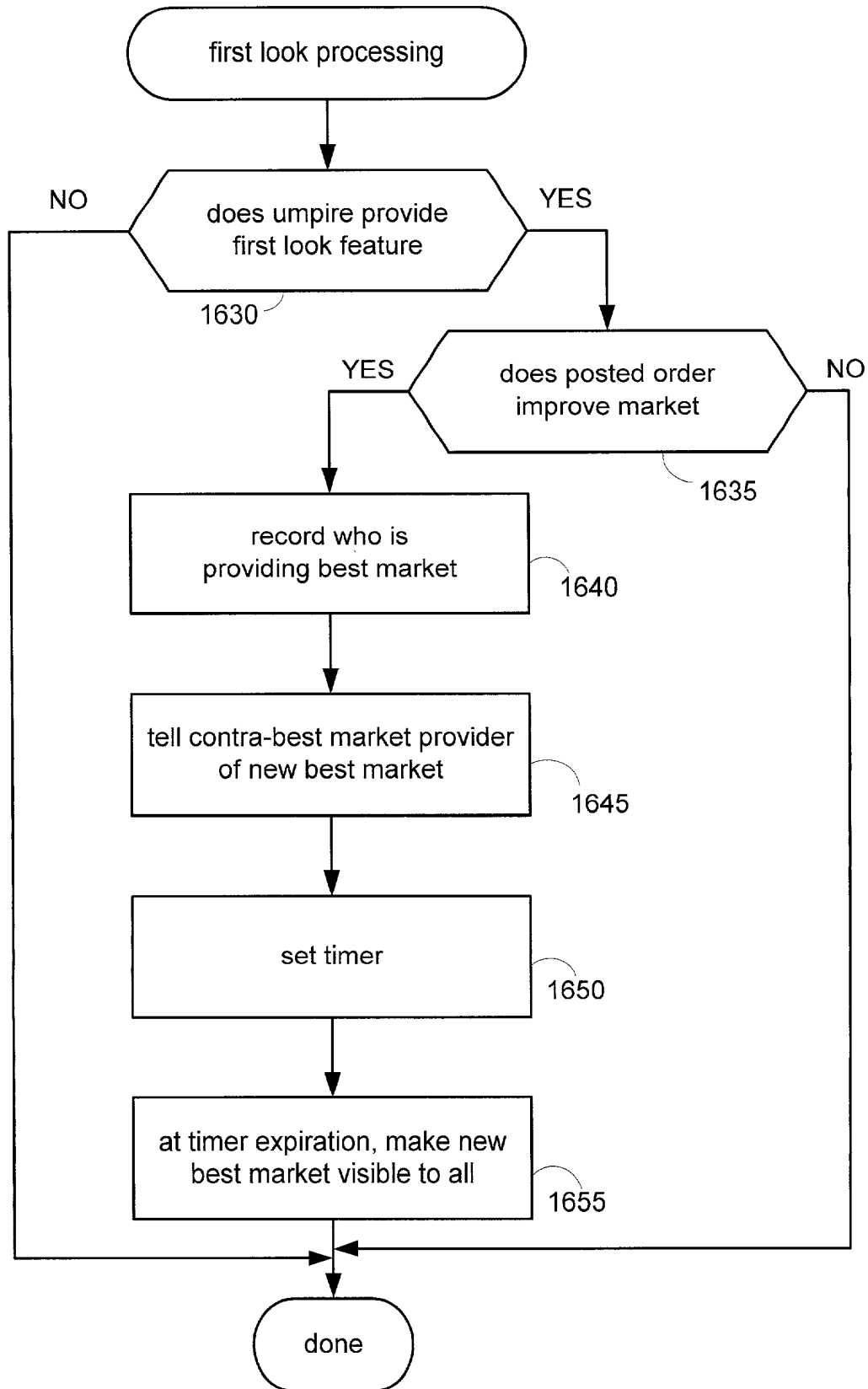


FIG. 76

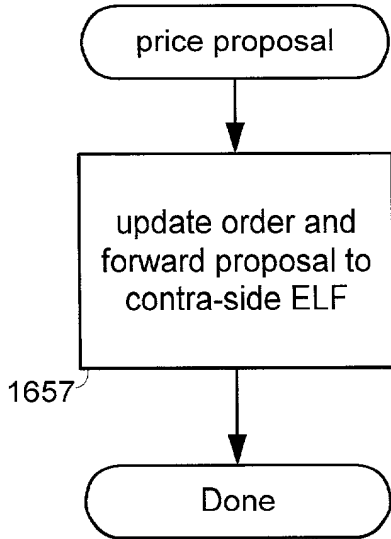


FIG. 77

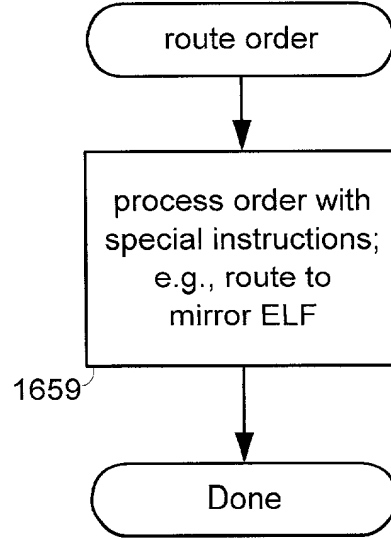


FIG. 78

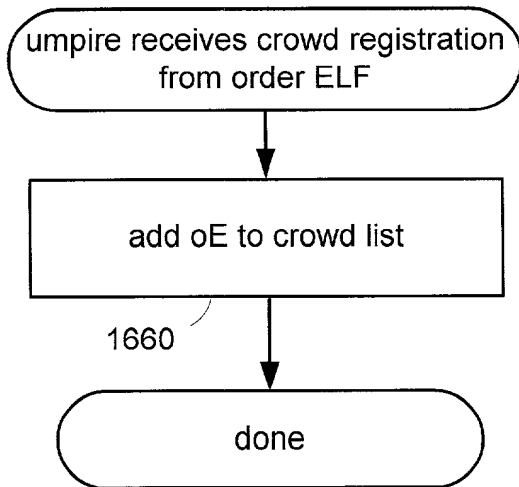


FIG. 79

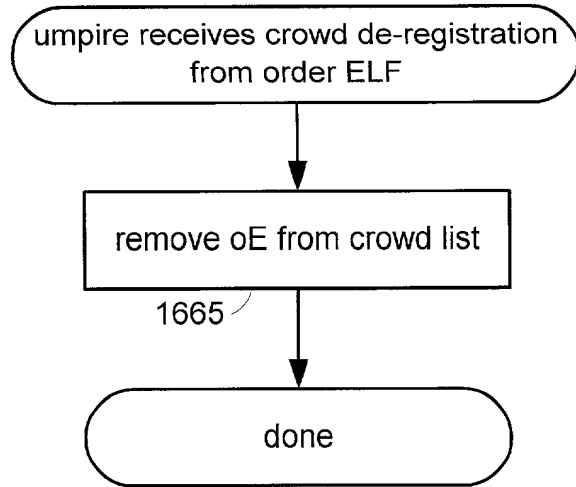


FIG. 80

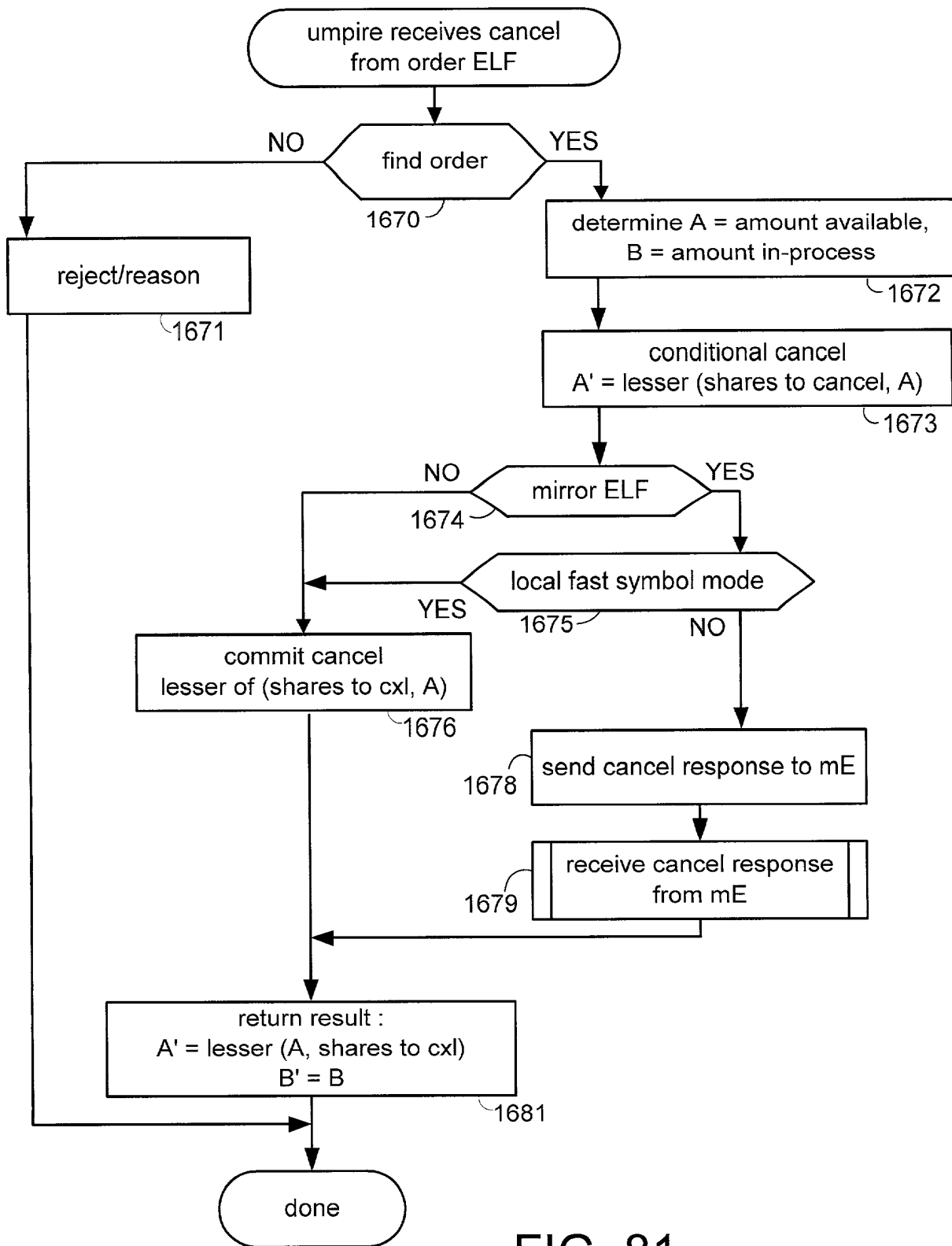


FIG. 81

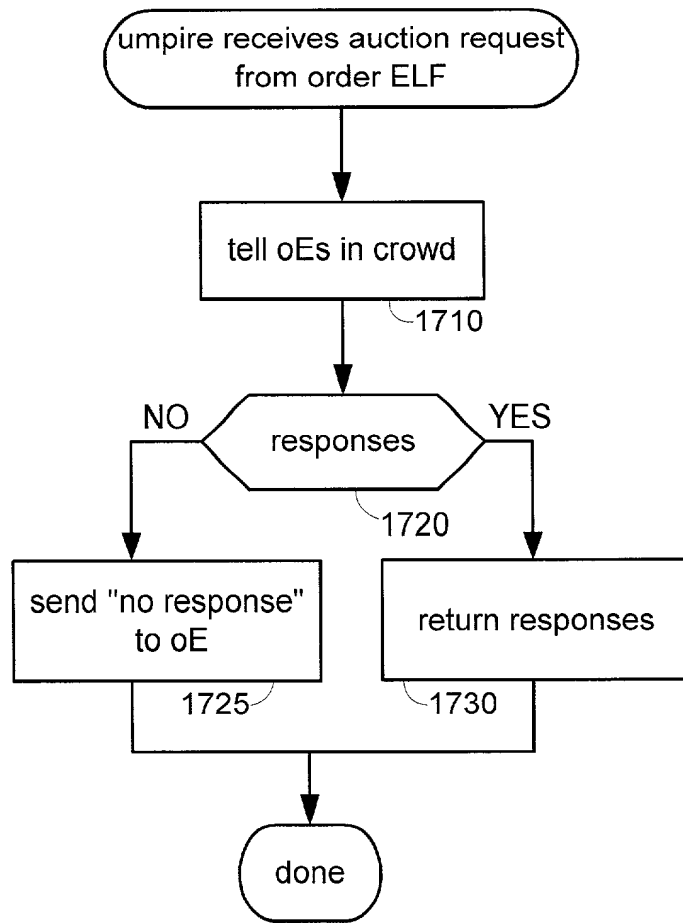


FIG. 82

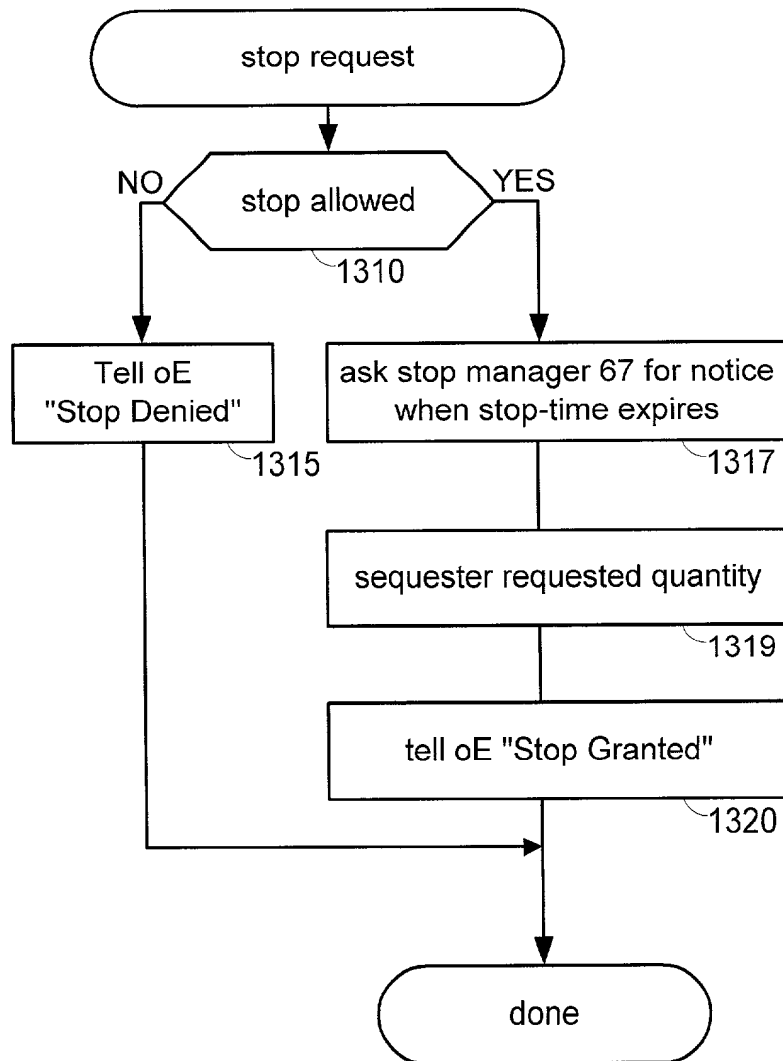


FIG. 83

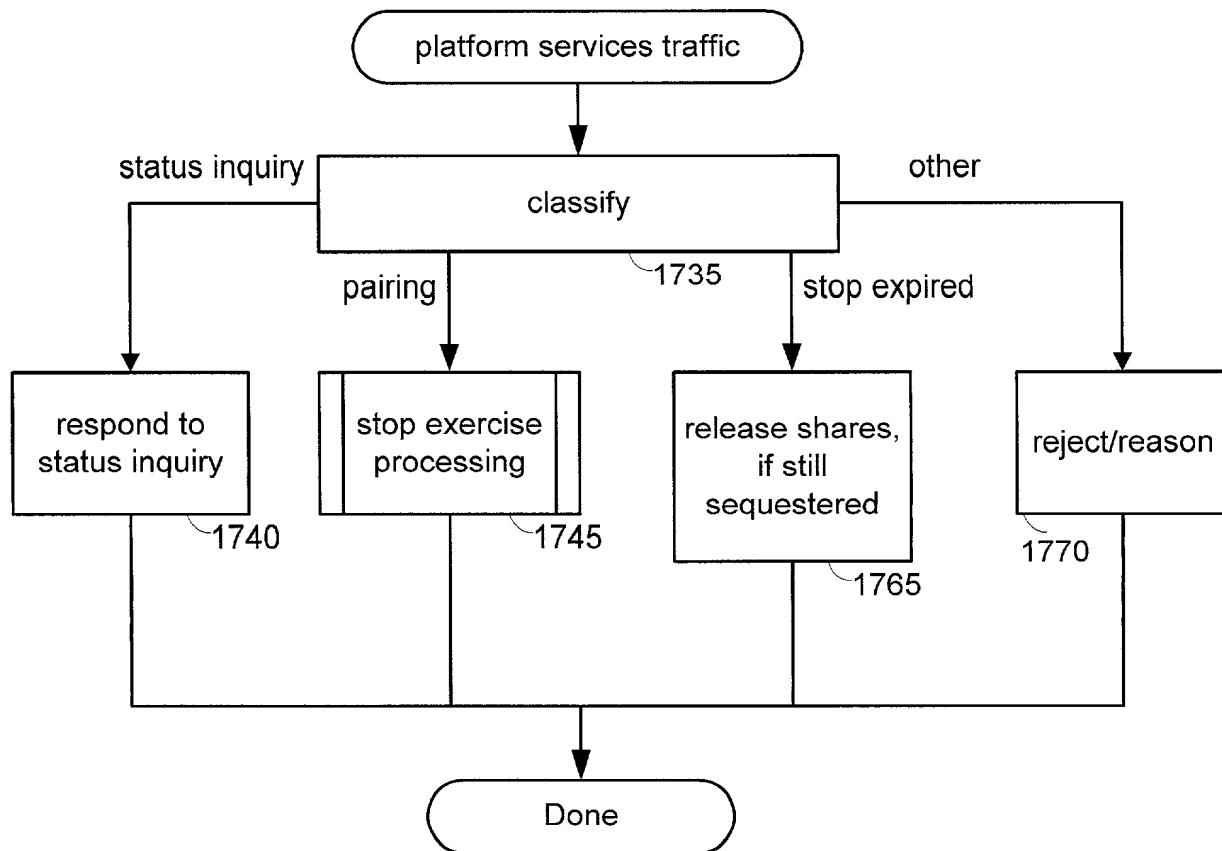


FIG. 84

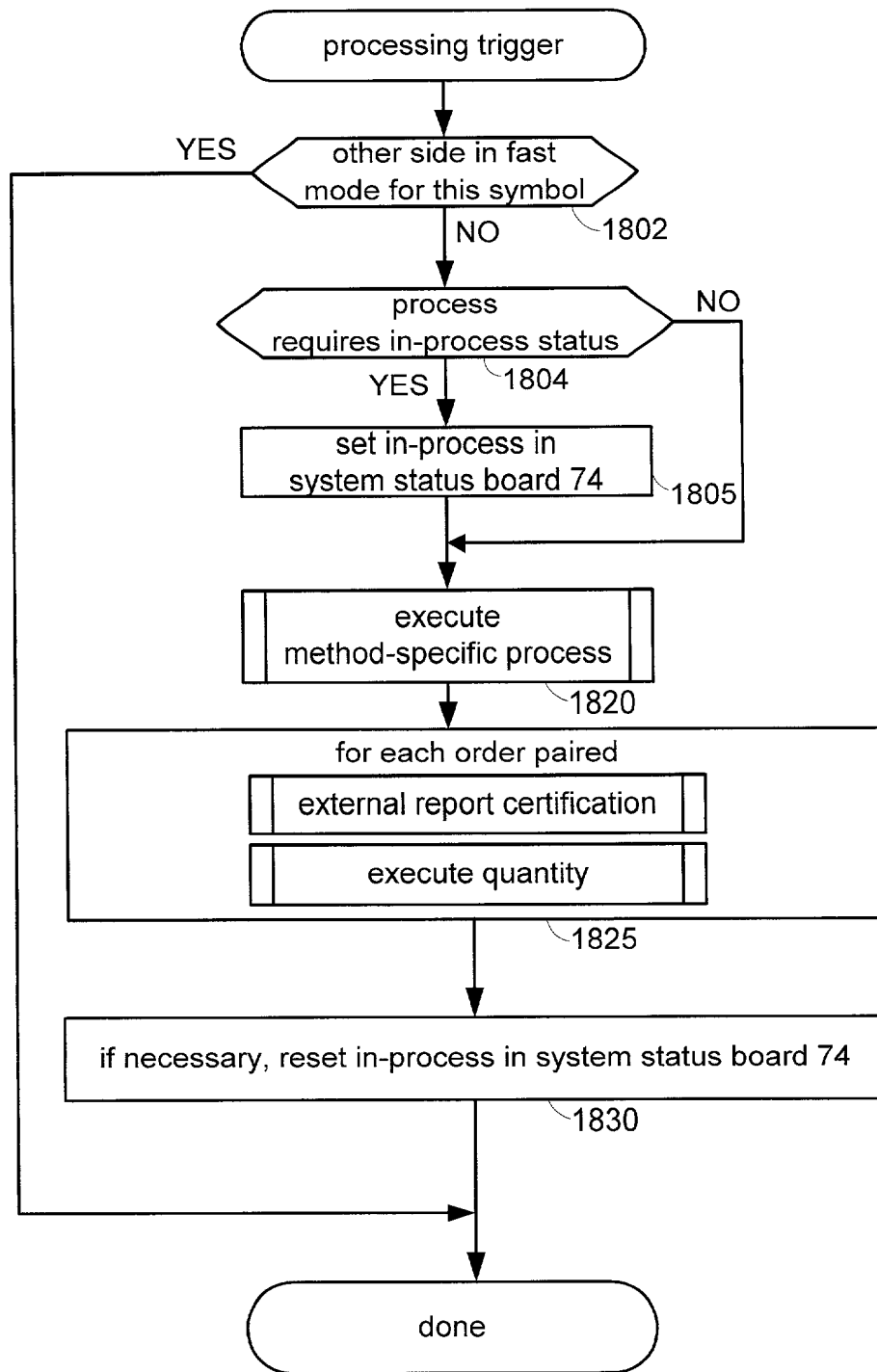


FIG. 85

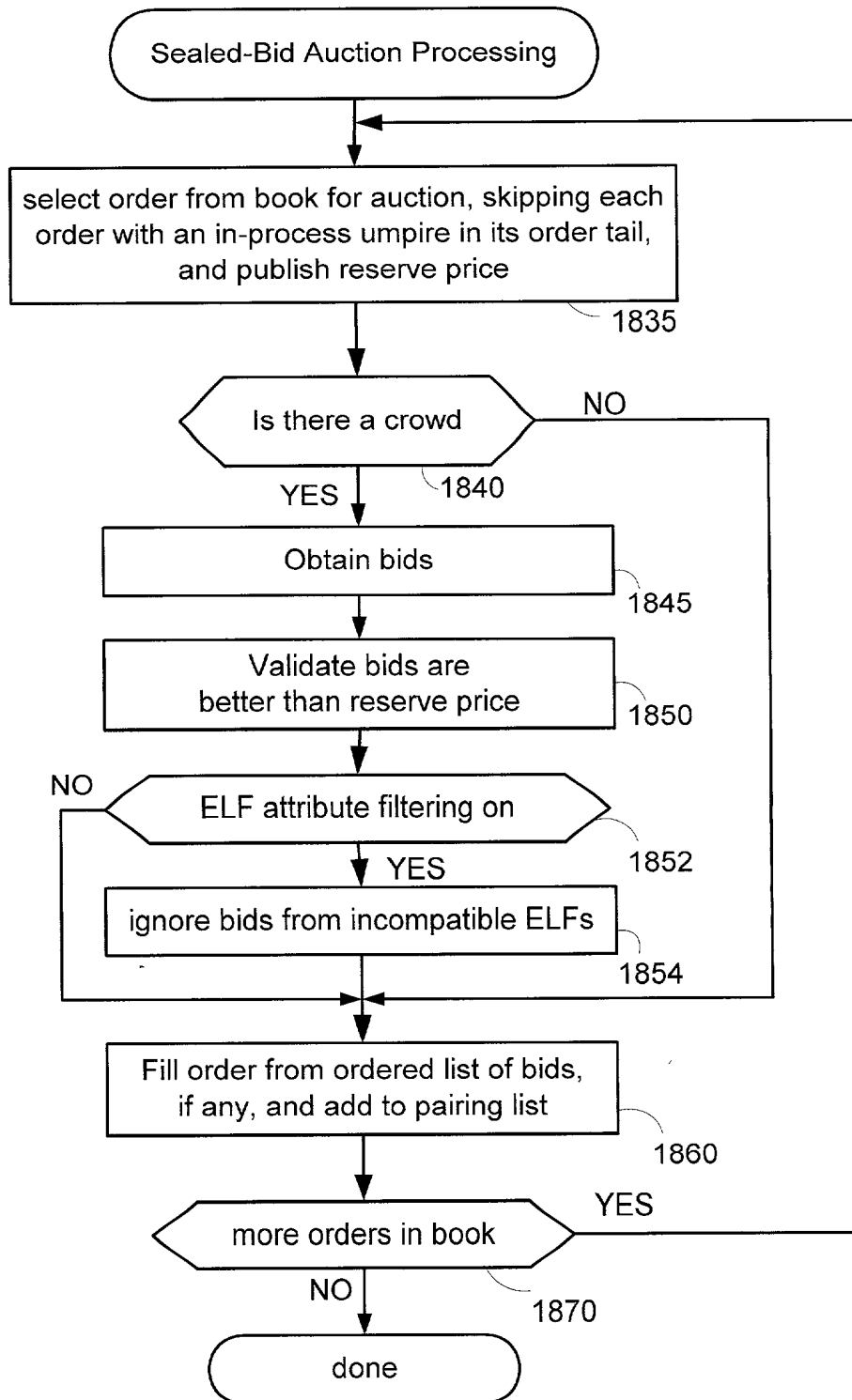


FIG. 86

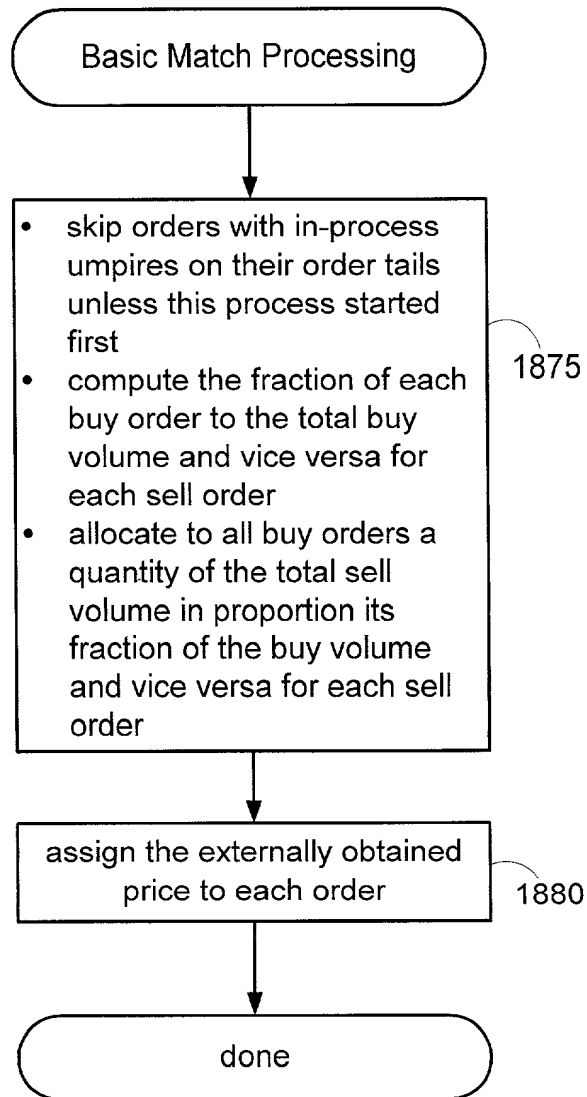


FIG. 87

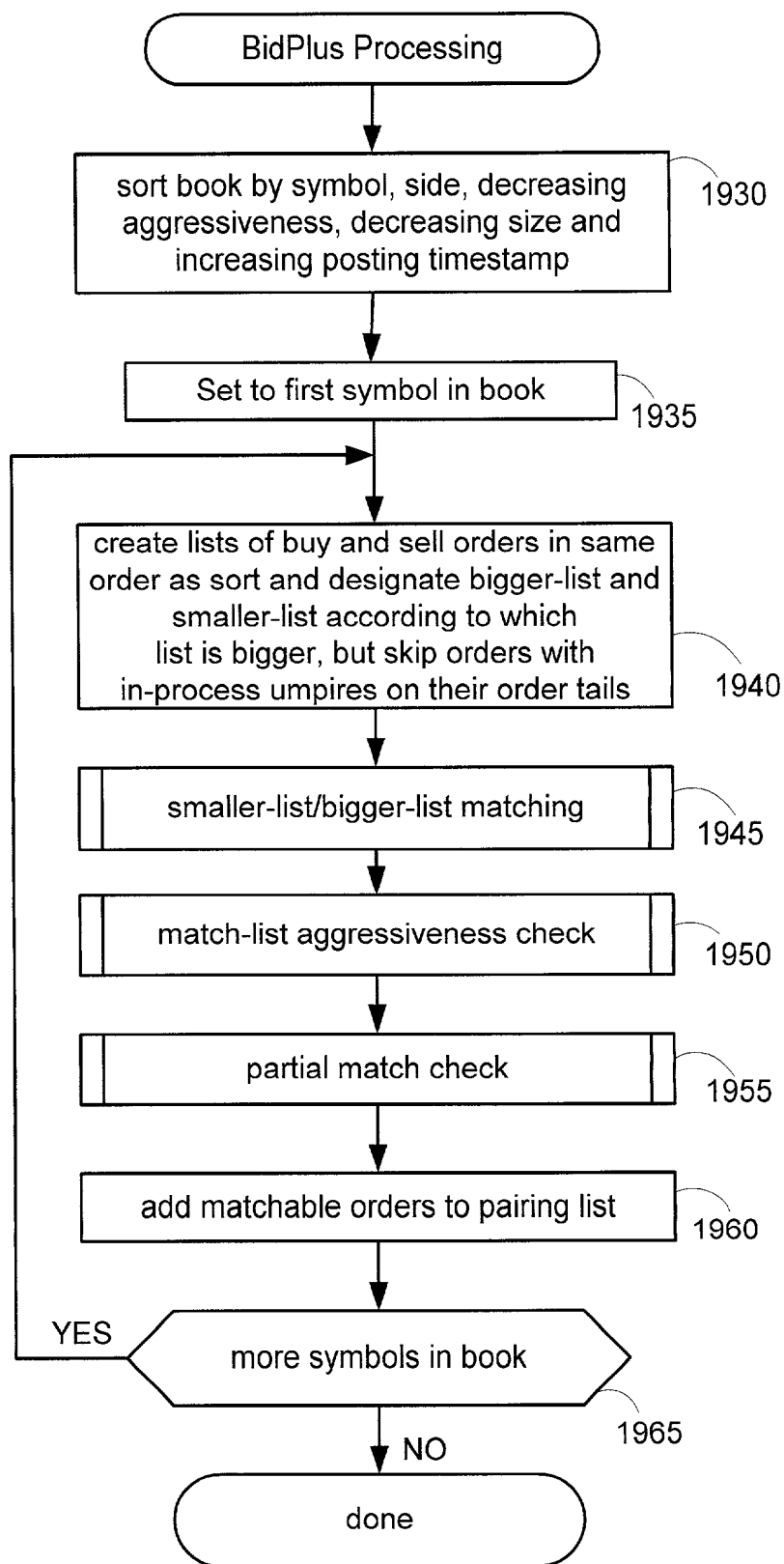


FIG. 88

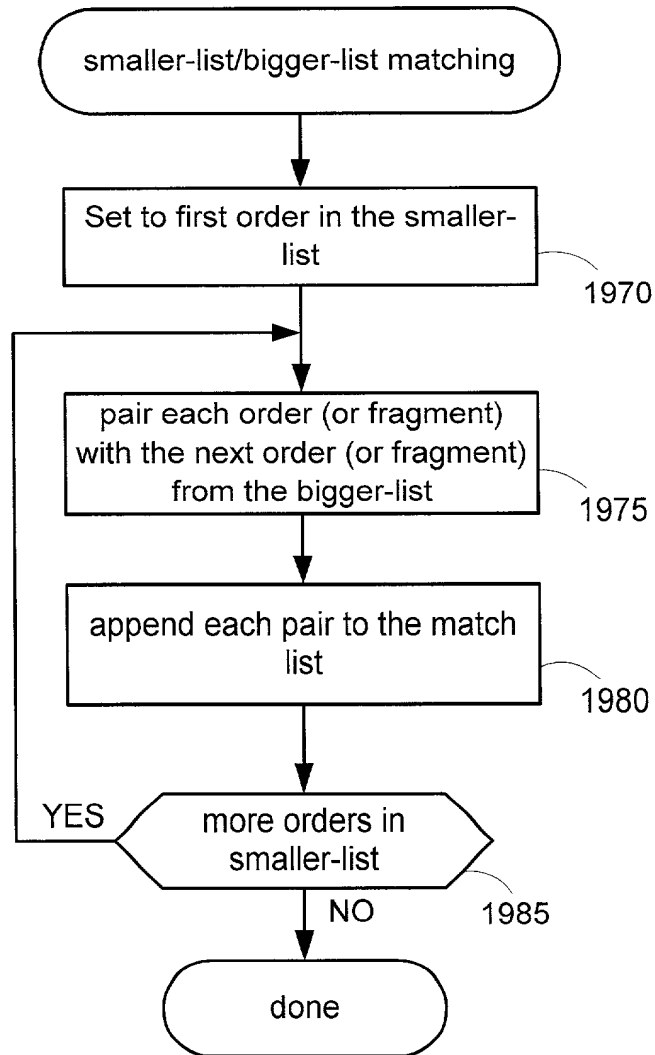


FIG. 89

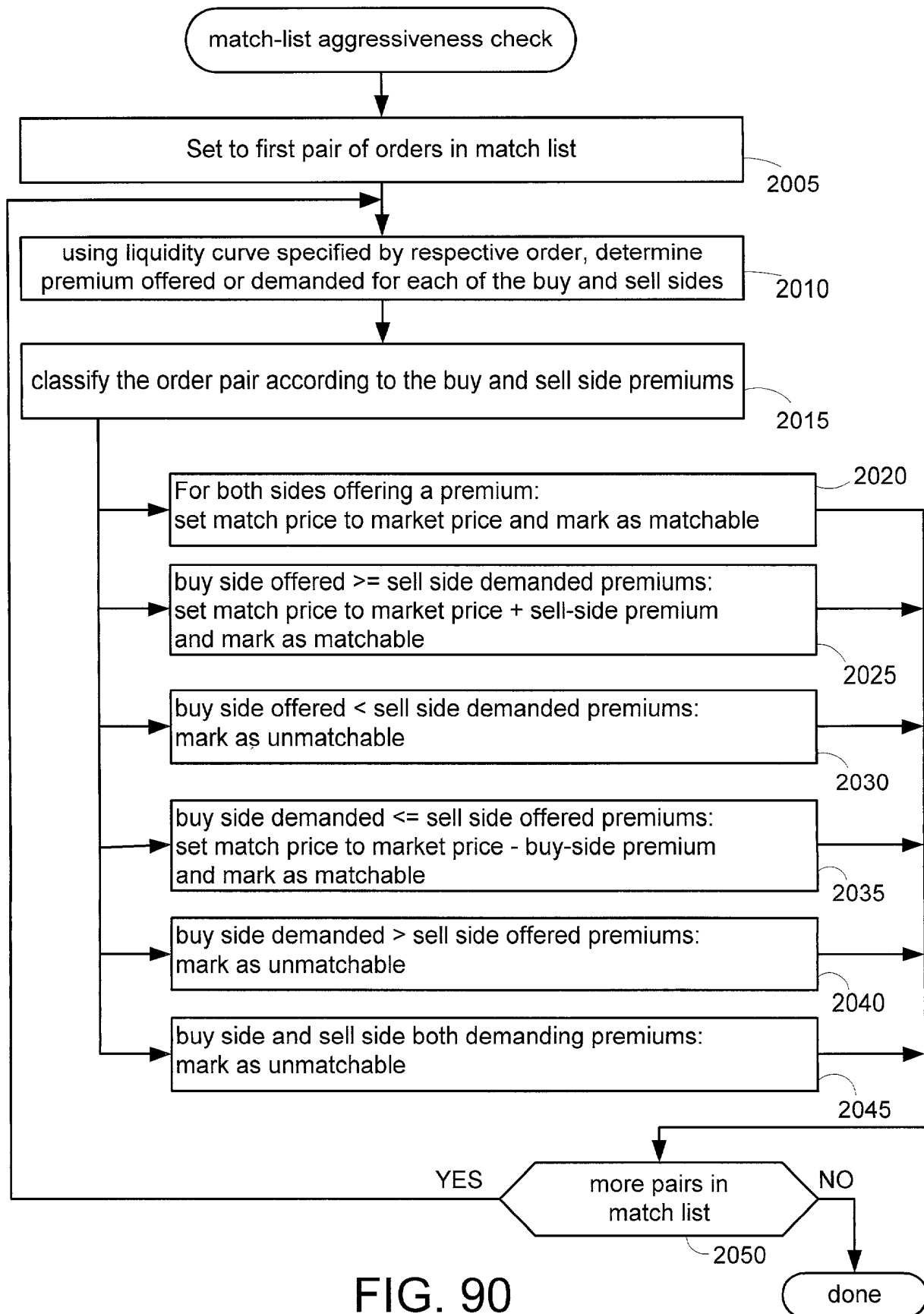


FIG. 90

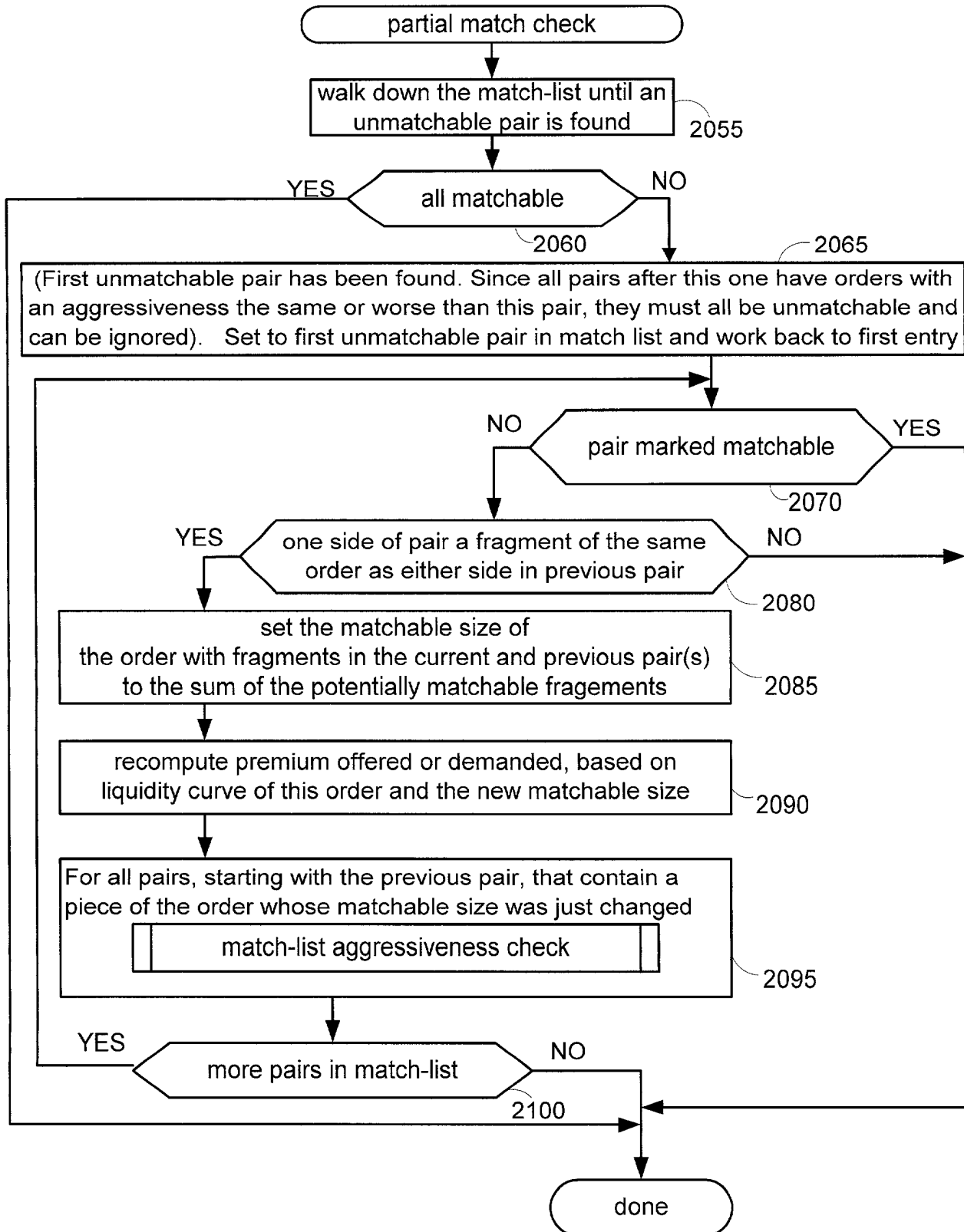


FIG. 91

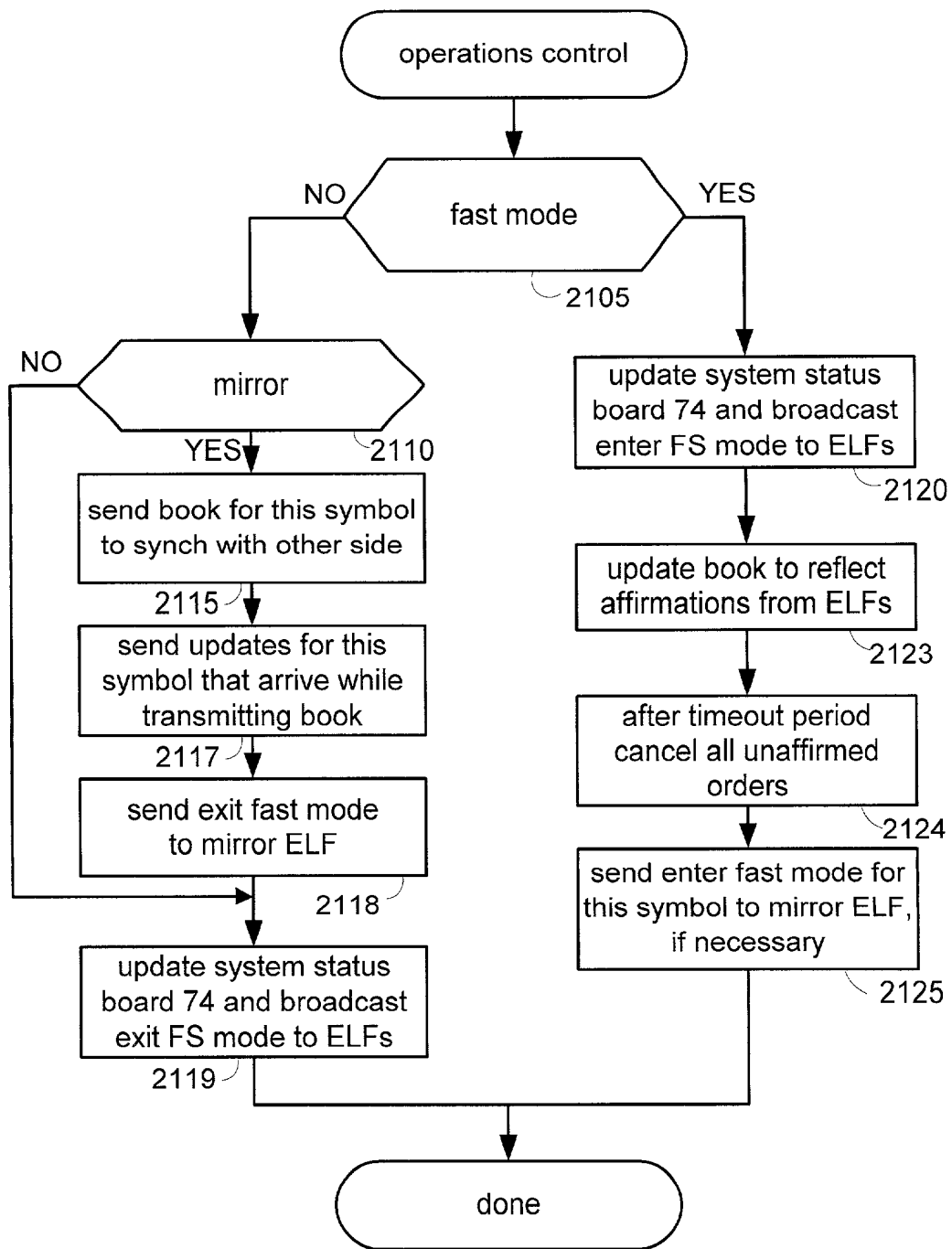
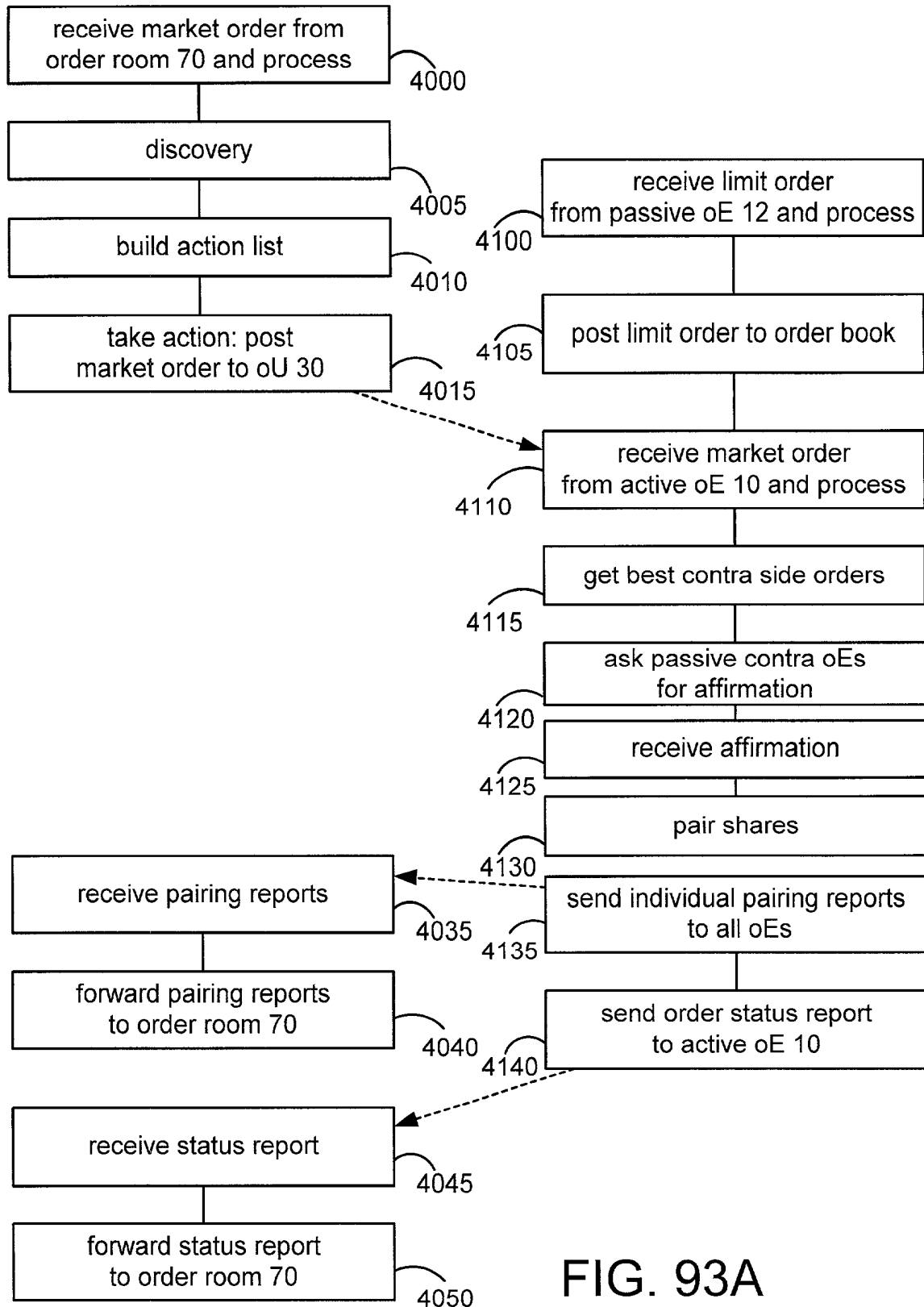
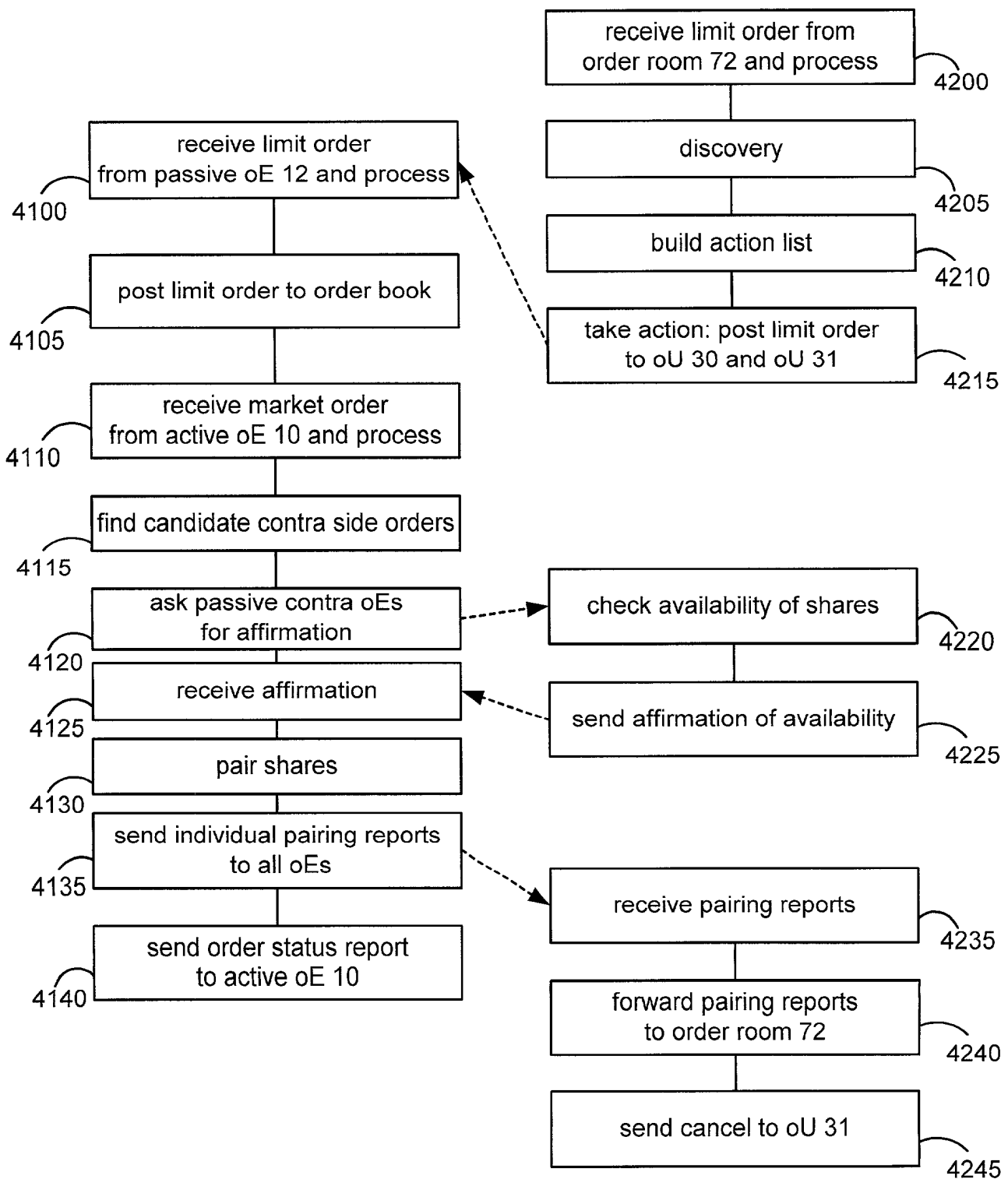
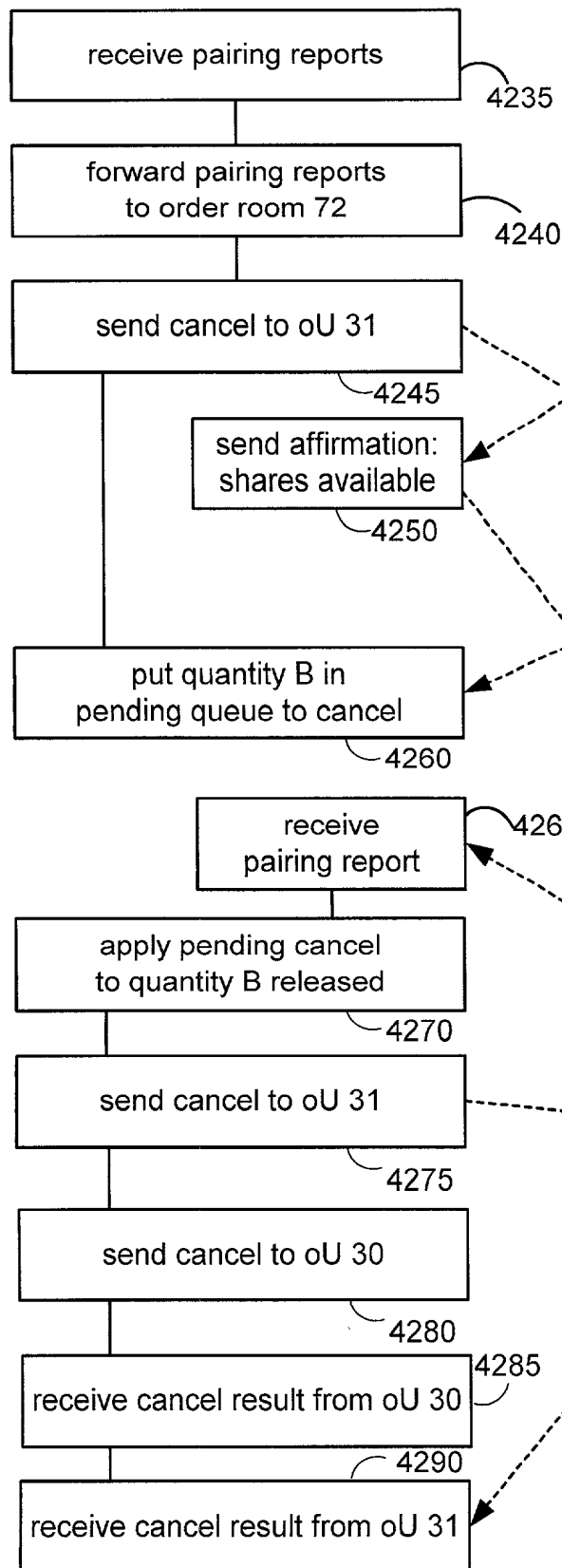
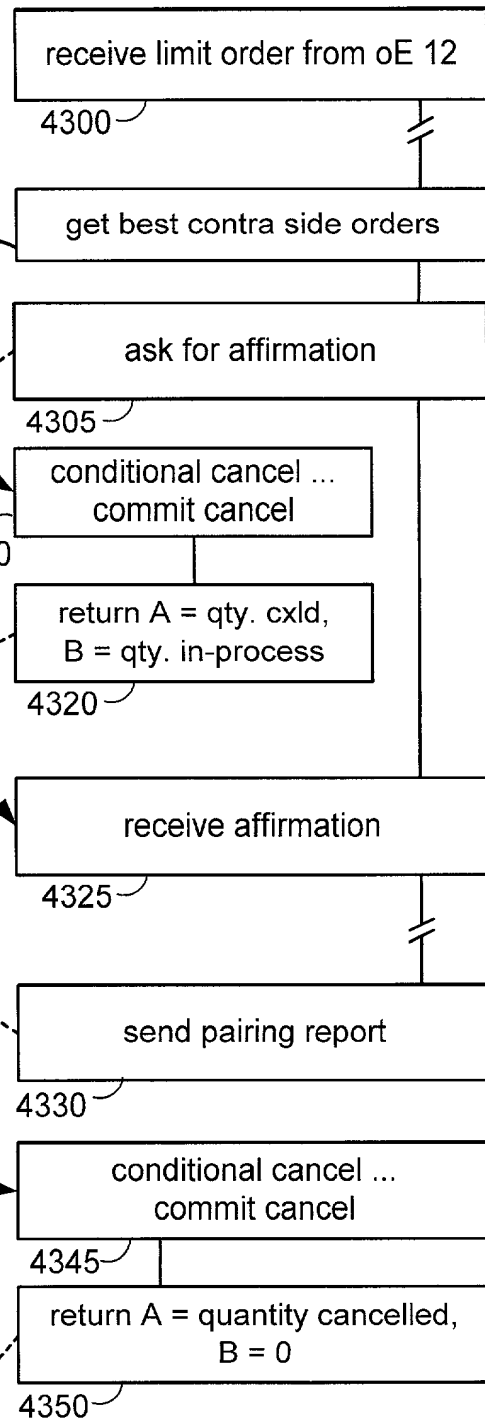


FIG. 92

order ELF 10**order umpire 30****FIG. 93A**

order umpire 30**order ELF 12****FIG. 93B**

order ELF 12**order umpire 31****FIG. 93C**

oU 31

mE 51

oU 32

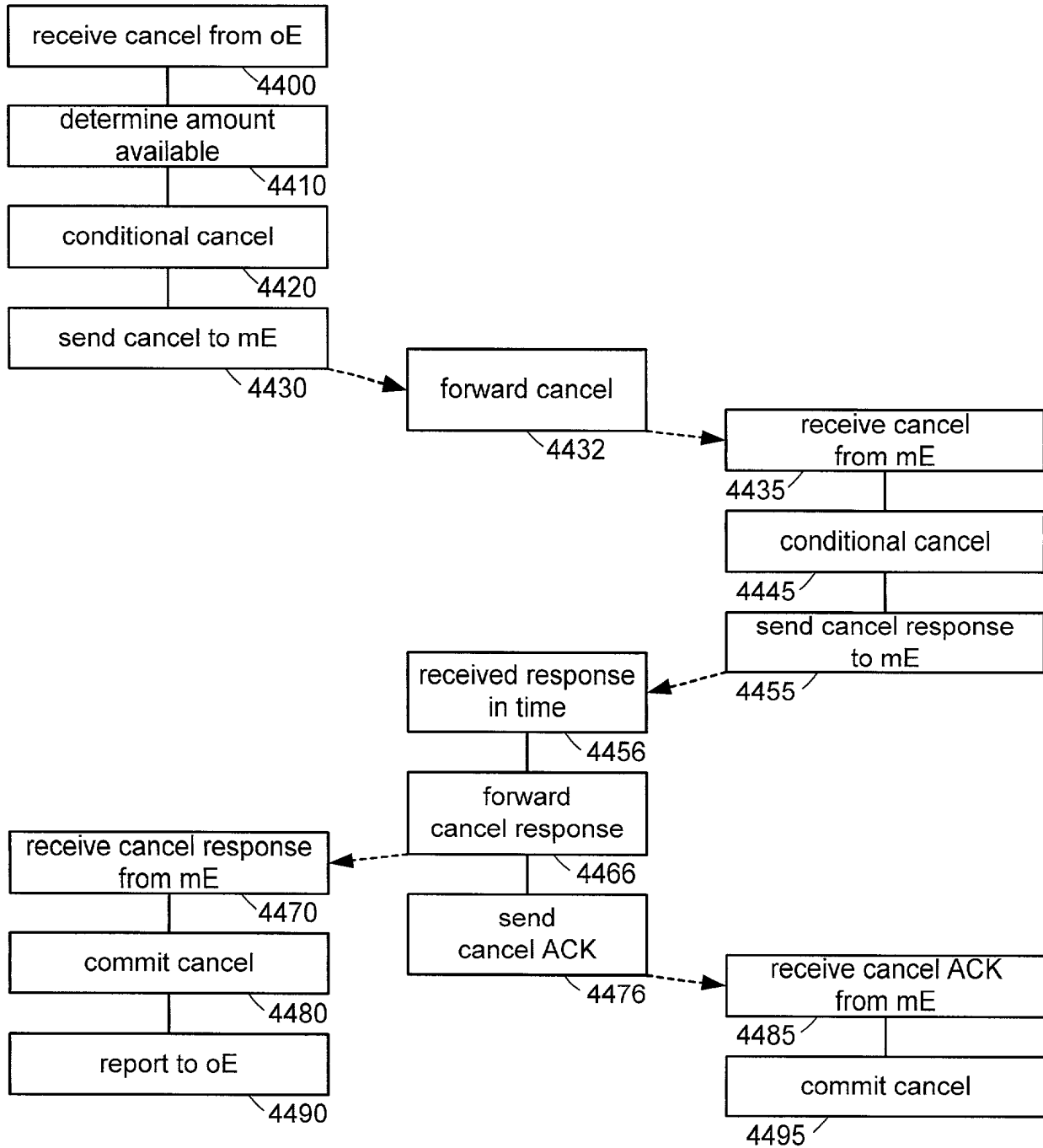


FIG. 94

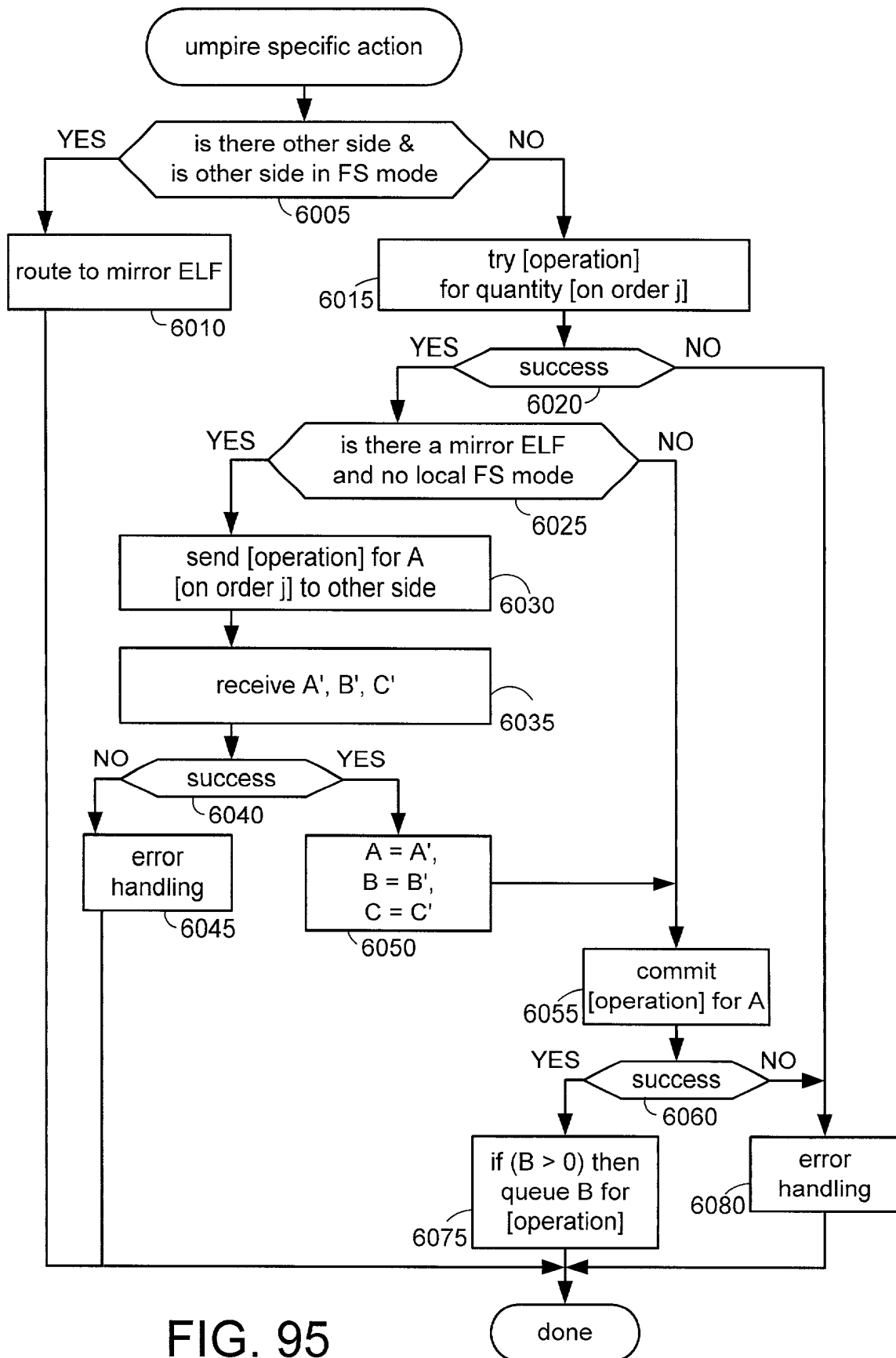


FIG. 95

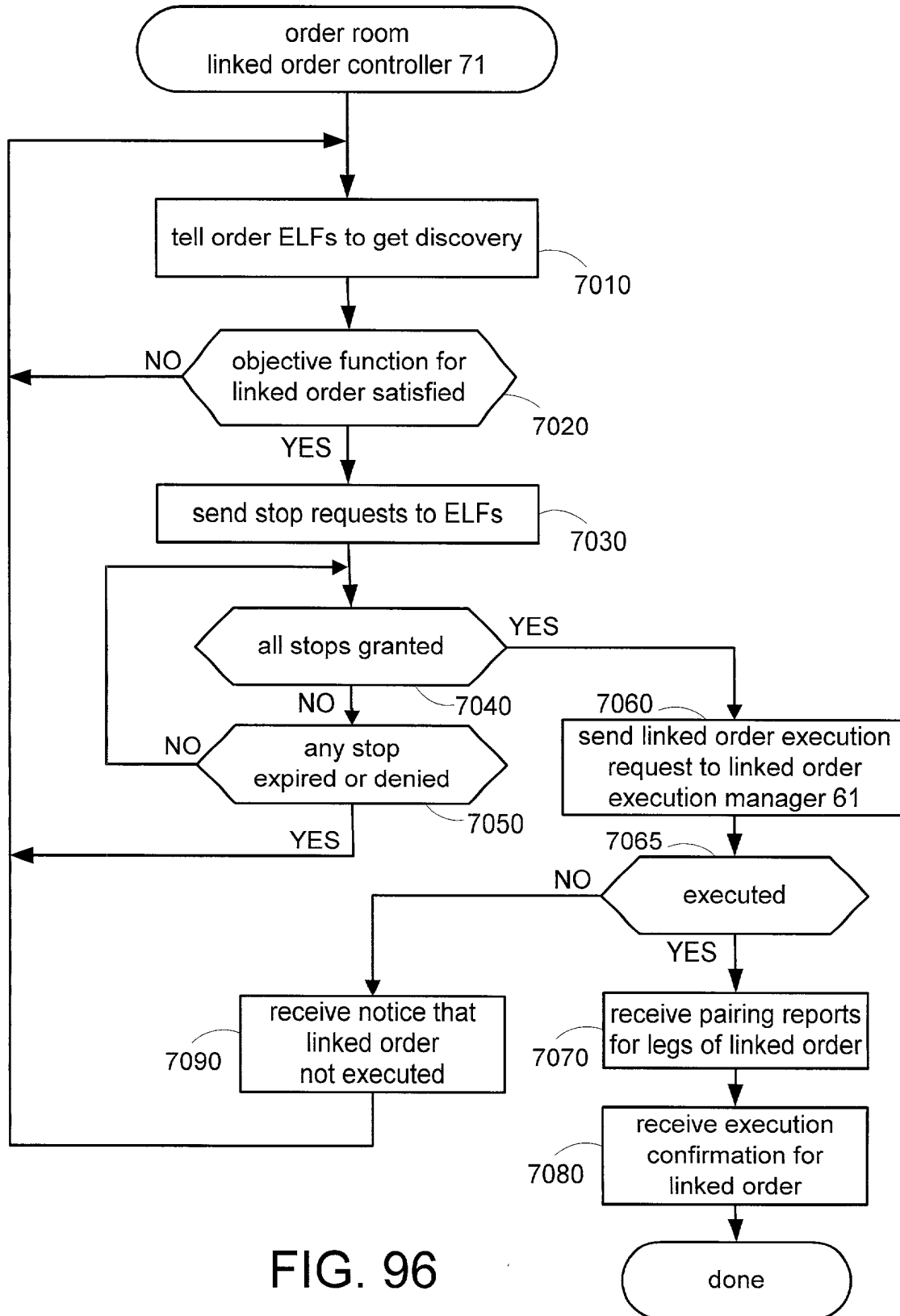


FIG. 97 is a flowchart illustrating a process for managing linked order execution requests. The process involves three main components: LOC 71, ELFs, and stop mgrs.67. The process begins with LOC 71 sending a request to ELFs to discover (7105). ELFs then send a response to LOC 71 to decide objective function satisfied (7110). LOC 71 then sends a request to stop mgrs.67 to get stops (7115). stop mgrs.67 sends a response to ELFs to grant stop (7125). ELFs then send a response to LOC 71 to request stop (7120). LOC 71 then sends a request to stop mgrs.67 to stop granted (7140). stop mgrs.67 sends a response to ELFs to pair shares (7175). ELFs then send a response to LOC 71 to forward pairing report (7185). LOC 71 then sends a request to stop mgrs.67 to receive pairing reports (7190). stop mgrs.67 sends a response to ELFs to send linked order execution confirmation (7195). ELFs then send a response to LOC 71 to receive linked order execution confirmation (7199). The process ends with LOC 71 sending a request to stop mgrs.67 to tell LOEM 61 to execute (7150). stop mgrs.67 sends a response to ELFs to accept freeze (7165). ELFs then send a response to LOC 71 to receive linked order execution request (7155). LOC 71 then sends a request to stop mgrs.67 to freeze all stops (7160). stop mgrs.67 sends a response to ELFs to exercise stops (7170). ELFs then send a response to LOC 71 to send linked order execution confirmation (7195). The process ends with LOC 71 sending a request to stop mgrs.67 to tell LOEM 61 to execute (7150).

LOC 71

ELFs

umpires

stop mgrs.67

LOEM 61

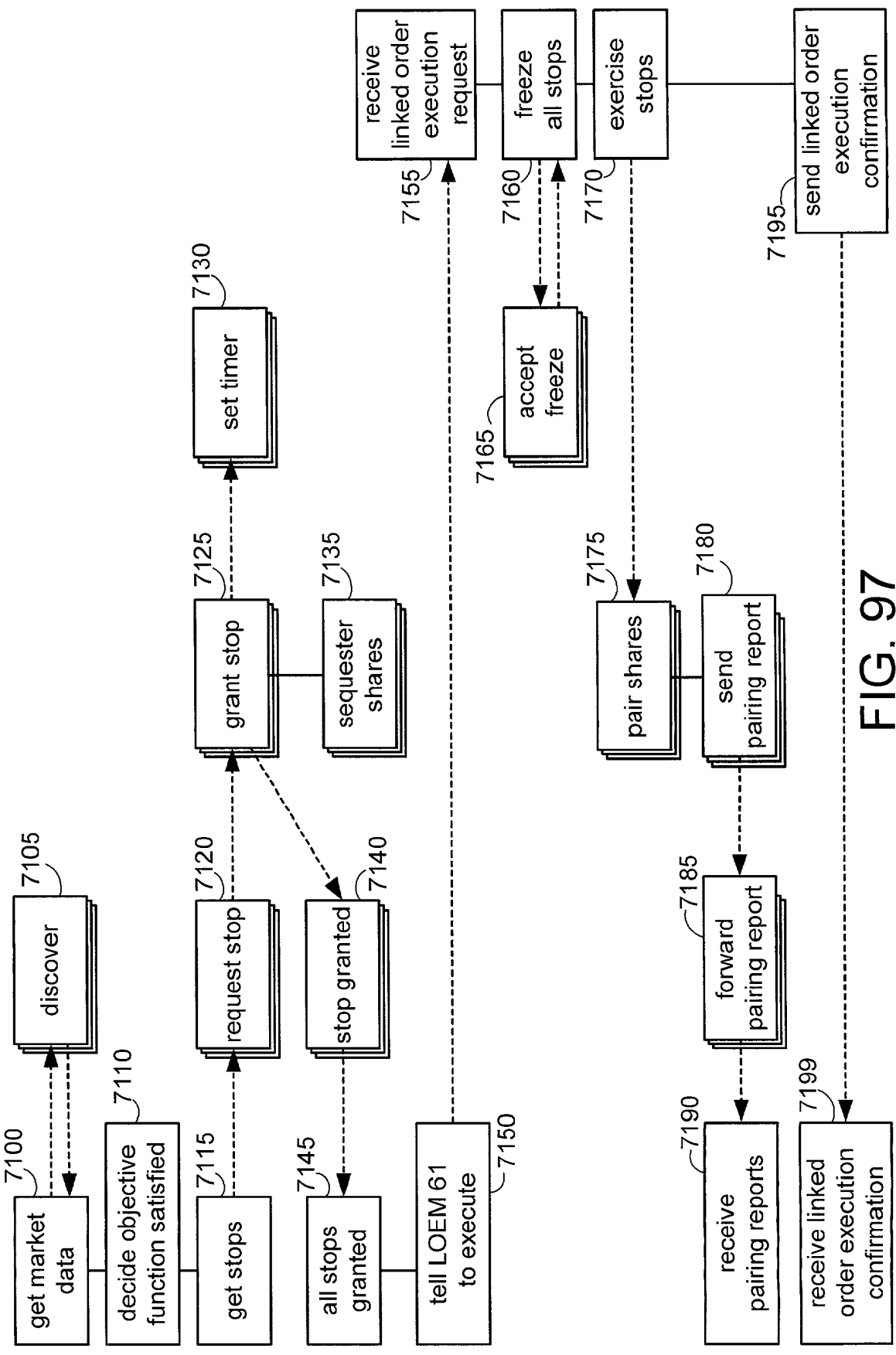


FIG. 97

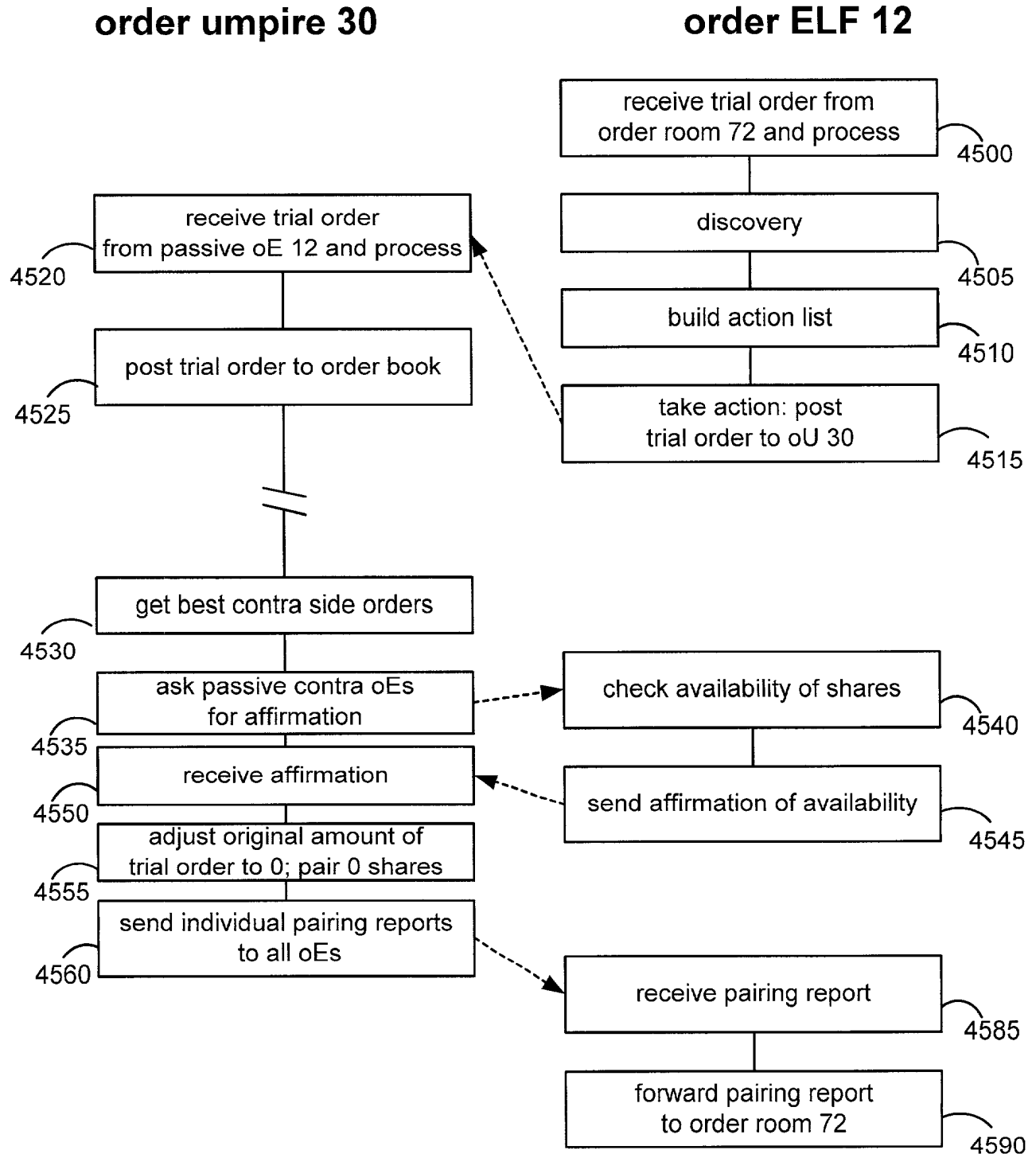


FIG. 98

oE 10

oU 30

oE 12

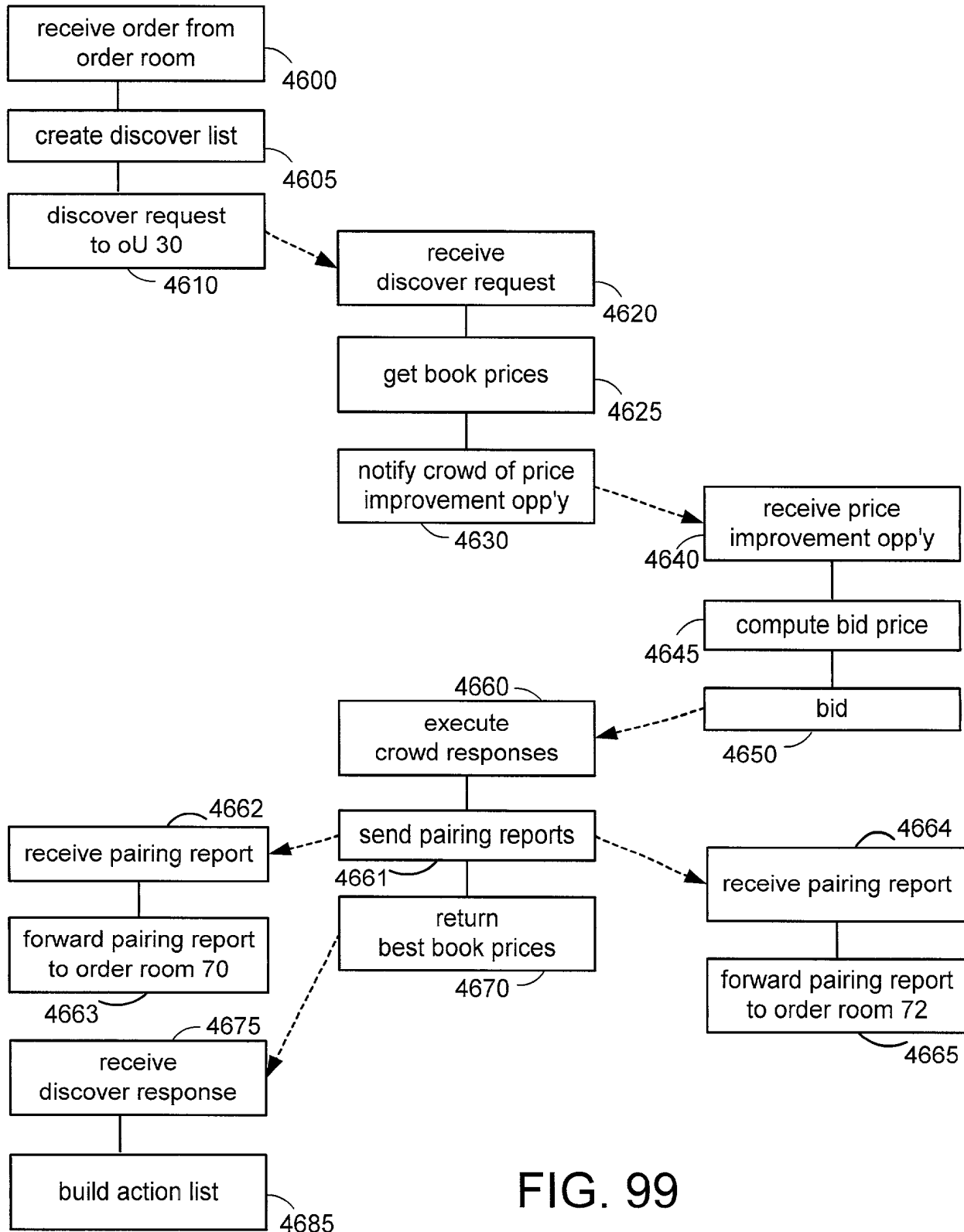
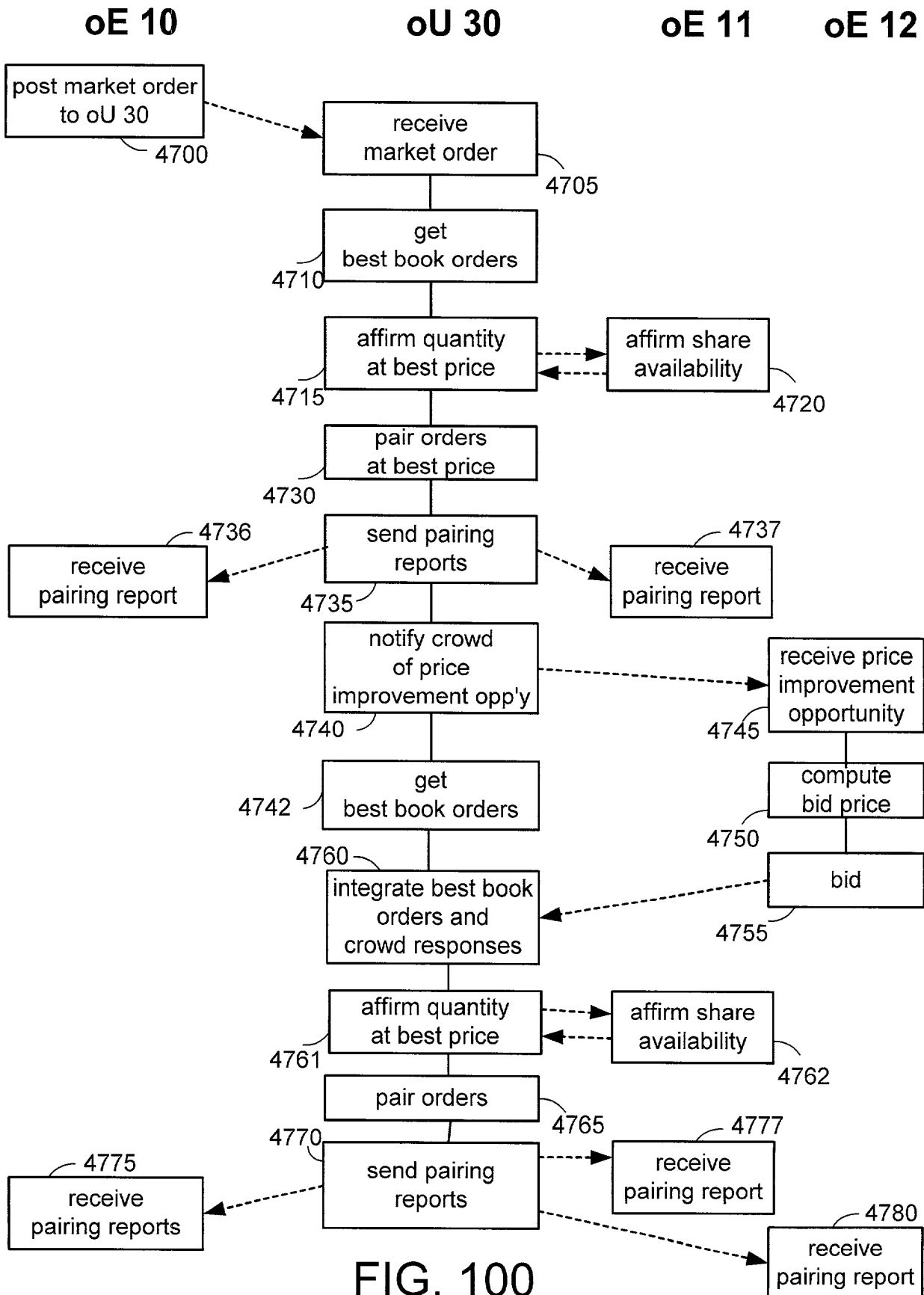


FIG. 99



oE 10

oU 30

oE 12

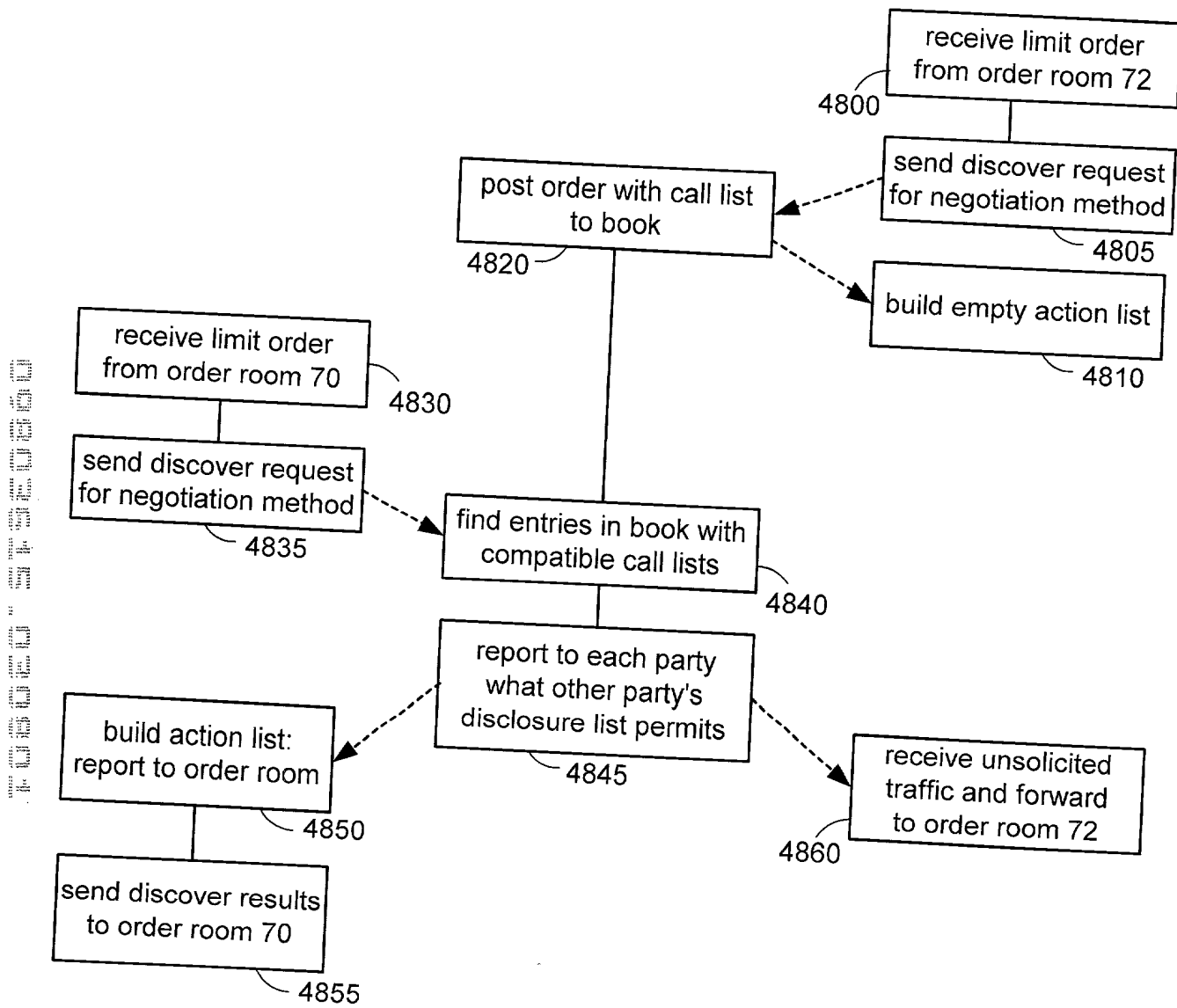


FIG. 101

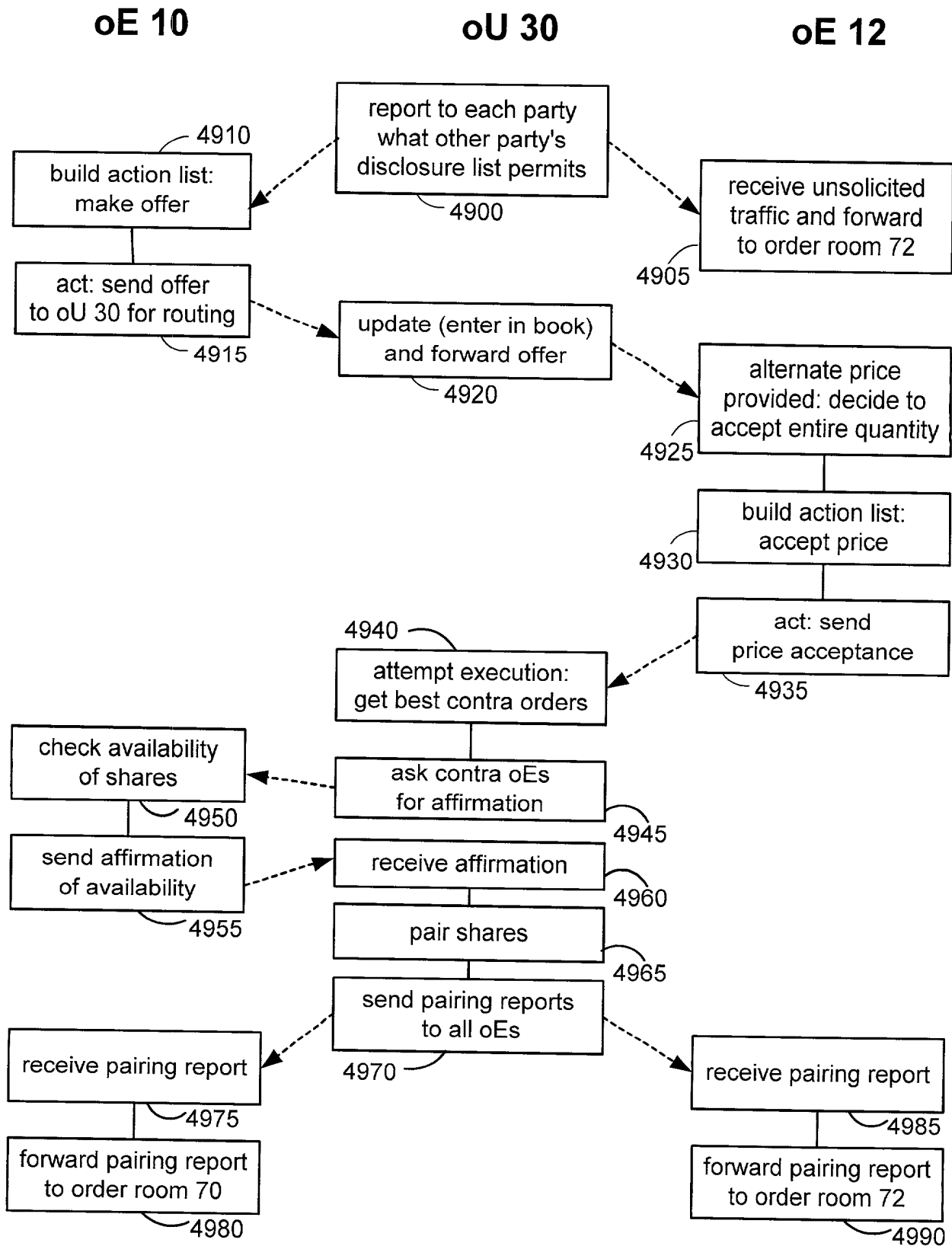
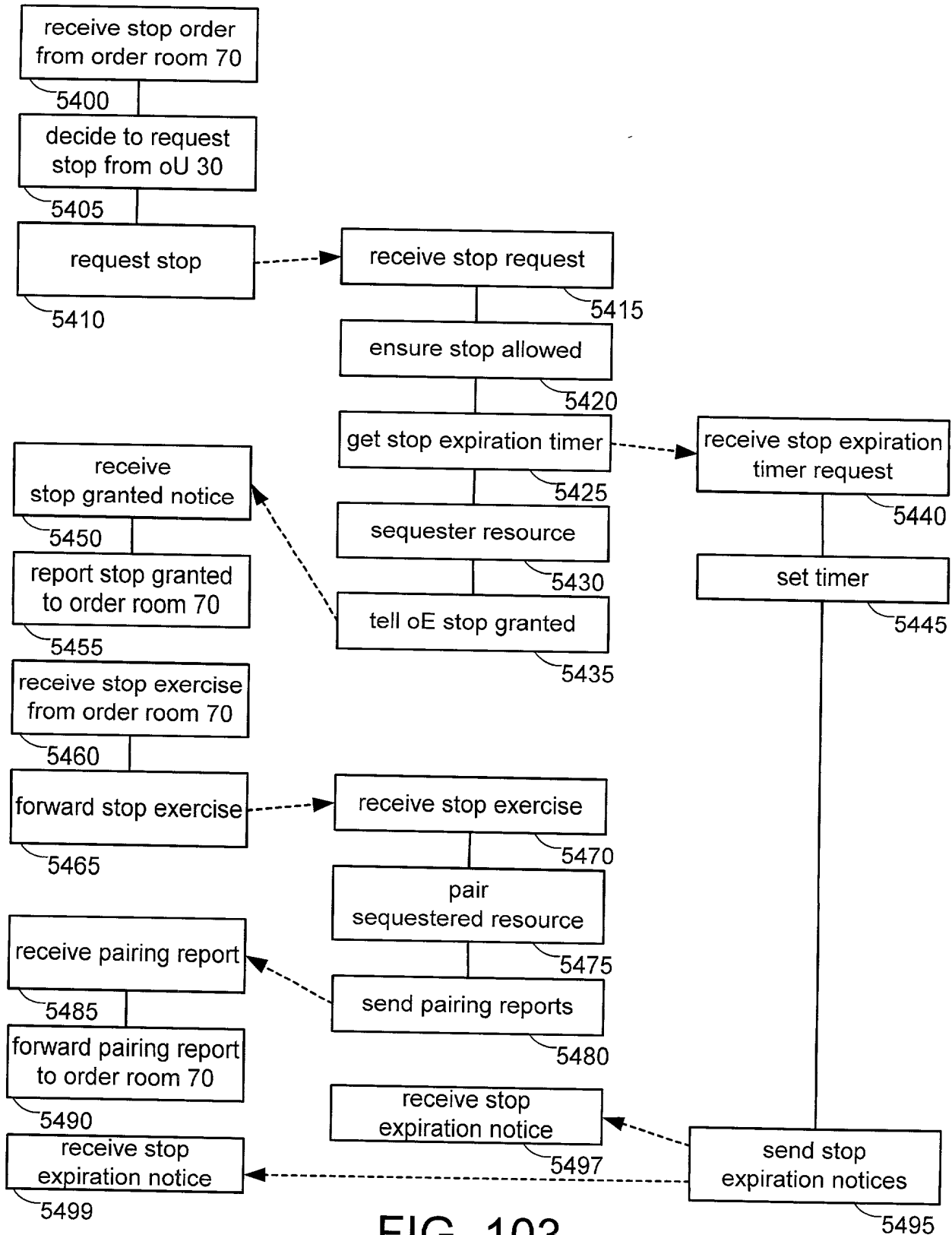


FIG. 102

oE 10**oU 30****stop order mgr 67****FIG. 103**